Floods of December 1982 to May 1983 in the Central and Southern Mississippi River and the Gulf of Mexico Basins



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Floods of December 1982 to May 1983 in the Central and Southern Mississippi River and the Gulf of Mexico Basins

By ROY B. STONE and R.H. BINGHAM

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CONVERSION FACTORS AND VERTICAL DATUM

Analyses and compilations used in this report are in inch-pound units of measurements. Factors for converting inch-pound units to metric International System units are listed below.

Multiply inch-pound unit	Ву	To obtain metric unit	
inch (in.)	25.4	millimeter (mm)	
foot (ft)	0.3048	meter (m)	
mile (mi)	1.609	kilometer (km)	
square mile (mi ²)	2.590	square kilometer (km ²)	
cubic foot per second (ft ³ /s)	0.02832	cubic meter per second (m ³ /s)	
cubic foot per second per square mile [(ft³/s)/mi²]	0.0109	cubic meter per second per square kilometer [(m³/s)/km²]	

Elevations shown in this report are referred to as National Geodetic Vertical Datum (NGVD) of 1929—a geodetic datum derived from a general adjustment of the first-order level nets of both the United States and Canada, formerly called "Sea Level Datum of 1929."

Floods of December 1982 to May 1983 in the Central and Southern Mississippi River and the Gulf of Mexico Basins

By Roy B. Stone and R.H. Bingham

Abstract

Widespread flooding occurred in December 1982 and in spring 1983 in the central and southern Mississippi River basin. The first series of storms, December 2-7, caused severe flooding along many streams in Illinois, Missouri, and Arkansas. Much of the three-State area experienced recordbreaking 24-hour rainfall amounts that caused some streams to exceed previously known flood heights and discharges; in many cases the recurrence interval of peak discharges exceeded 100 years. The second series of storms, December 24-29, caused severe flooding in Louisiana and moderate flooding in Mississippi. Peak discharges on some streams exceeded the 100-year recurrence interval. Damages exceeded \$200 million and 25 persons died as a result of the December storms. Western Tennessee was on the fringes of both storms and received only minor flooding.

During April 4–8, 1983, as much as 17 inches of rain fell in parts of southern Mississippi and southeastern Louisiana. In some areas, 24-hour amounts exceeded 5 inches, causing peak discharges to exceed the recurrence interval of 100 years at 20 streamflow gaging stations.

In May 1983 heavy and intense rains caused major flooding in the Big Black River and Pearl River basins in Mississippi.

INTRODUCTION

Four major floods occurred in the central and southern Mississippi River basin from December 1982 to May 1983. Two of the floods were in December 1982, one during the first week and the second during the last week. The third flood occurred in April 1983 and the fourth in May 1983. The flooding in late December extended into January 1983 and caused major problems along many streams in Illinois, Missouri, Arkansas, Mississippi, and Louisiana. The flood of April 1983 was smaller in areal extent but caused major problems along streams in Mississippi and Louisiana and minor problems along streams in

western Tennessee. In May 1983 major floods occurred only in the Big Black River and Pearl River basins in Mississippi. Figure 1 shows the general area affected by the floods.

Damages from the December floods probably exceeded at least \$200 million, according to reports by U.S. Army Corps of Engineers' Little Rock, Memphis, and Vicksburg Districts. Louisiana, Mississippi, and Arkansas suffered the most severe damage; several lives were lost. Many counties in the three States were declared disaster areas. Damage estimates are not available for the April and May 1983 floods.

Purpose and Scope

The purpose of this report is to document four outstanding floods by summarizing conditions that preceded the floods, showing the distribution and amounts of rainfall, describing the magnitude and frequency of flood discharges at selected sites in the area, and describing the effects of the December 1982 floods on reservoirs. The data provide a technical basis on which to make flood-plain management decisions.

Acknowledgments

Discharge and other streamflow data in this report were obtained through cooperative programs between the U.S. Geological Survey and State agencies of Arkansas, Illinois, Mississippi, Missouri, Louisiana, and Tennessee; county and municipal agencies in those States; and Federal agencies. The U.S. Army Corps of Engineers' Little Rock, Memphis, and Vicksburg Districts provided rainfall data, reservoir flood heights and contents, and estimates of flood damage. The National Weather Service provided rainfall data.

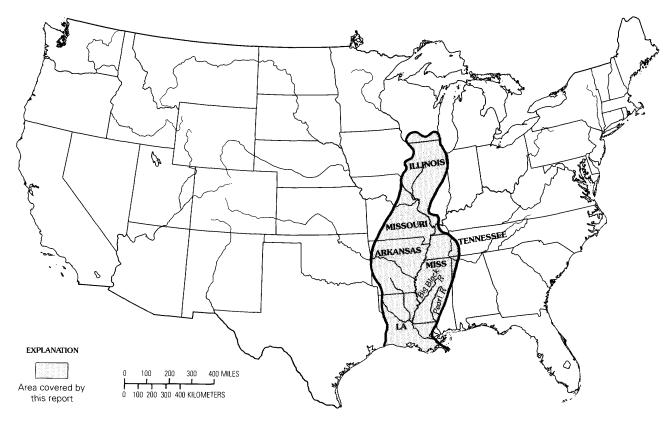


Figure 1. Area affected by the floods of December 1982 to May 1983 in the central and southern Mississippi River and Gulf of Mexico basins.

Other Federal and State agencies, municipalities, universities, corporations, and individuals collected and provided information about the floods. Credit for their assistance is given in the text.

FLOODS OF DECEMBER 1982

Heavy and intense rainfall in December 1982 caused severe flooding along many streams in Illinois, Missouri, Arkansas, Mississippi, and Louisiana (fig. 1). The storms occurred during two separate periods, December 2–7 and December 24–29. Flooding from the second storm extended into January on major streams. Rainfall data for the storms were collected by the U.S. Army Corps of Engineers and the National Weather Service.

Several localities in the study area experienced recordbreaking 24-hour rainfall amounts (National Weather Service, December 1982) during the first week in December. Above-normal rainfall had also occurred during November 1982, mostly near the end of the month. The National Weather Service reported that December 1982 was a recordbreaking month for rainfall at almost every rain gage in Mississippi. The combination of large rains and saturated soils produced severely damaging floods in December on almost every stream in the five-State area.

Meteorology

The excessive rains in late fall and early winter 1982 were associated with a recurring pattern of slow-moving low-pressure areas. The two main storms, December 2-7 and December 24-29, were related to deep low pressure over the southwestern United States. The resulting flow around the systems fed warm, moist air over the lower Mississippi River basin and created atmospheric disturbances over the Gulf of Mexico and southeastern Texas that supported development of heavy rainfall. To add to the problem, high pressure centers over the Middle Atlantic States prevented the storms from moving in the usual pattern. Moisture from the Gulf of Mexico was drawn into the basin by a counter-clockwise flow of air around the lows and clockwise flow around the highs. Subsequent slow movement of the systems toward the northeast produced tornadoes, severe thunderstorms, and intense rainfall for extended periods.

On December 1, 1982, an intense low-pressure center moved out of the Rocky Mountains and into the Great Plains. The low-pressure center and the cold front that accompanied it pushed a large band of storms into the Mississippi River Valley, where heavy rains began on December 2. A second low formed simultaneously over

eastern Texas and reinforced the flow of warm, moist air into the Lower Mississippi Valley. The two low-pressure areas produced heavy rainfall during December 2–7.

The pattern of warm, moist air flow continued during the month with general rains, some of them locally heavy in mid-December, and very heavy rains December 24 to December 28. Figure 2 shows the pattern of rainfall during December 3–6, and figure 3 shows the pattern of rainfall during December 25–27.

Precipitation

Total precipitation amounts for December 1982 at many sites in the Mississippi River basin were the largest recorded for any December in this century. Total amounts commonly exceeded 10 inches throughout the central and southern parts of the basin and locally exceeded 20 inches. Largest amounts generally occurred in Illinois, Missouri, and Arkansas during December 2–7. Largest amounts occurred in Mississippi and Louisiana during December 24–29. Total amounts of precipitation for both periods in western Tennessee were generally less than 10 inches and produced only minor flooding on some streams. Table 1 (at end of report) gives cumulative amounts of rainfall for separate periods in each State affected by the December 1982 floods.

The following State-by-State summaries of record-breaking rainfall amounts are taken from information published by the National Weather Service (December 1982 and January 1983) and the U.S. Army Corps of Engineers (1983, May 1983, and August 1983). All sites mentioned in the summaries are not necessarily listed in table 1.

Illinois

In most parts of Illinois, December 1982 was the wettest December in this century. Only parts of east-central and northwestern Illinois failed to receive recordbreaking amounts. During December 2–6, rainfall amounts of 5 to 7 inches fell throughout the State, causing record or near-record flooding. The heaviest amounts of rain fell during December 2–3, when 6.12 inches at Springfield set a new 24-hour record. Figure 4 shows a graph of the duration and intensity of rainfall at the National Weather Service station at Springfield for December 2–3. A total of 6.95 inches of rain fell at the station during December 2–5. This was the only period when heavy rainfall caused significant flooding in Illinois during December 1982. A total of 1.45 inches fell at Springfield from December 24 through 27.

Missouri

In Missouri, all sections except the northwest experienced heavy and intense rainfall in December 1982. During December 2-5, rainfall averaged 5 to 7 inches

across eastern and southern Missouri, and amounts of 10 to 15 inches were reported locally. The heaviest rainfall amounts were reported from stations in Oregon, Carter, Wayne, and Reynolds Counties. The amounts in those counties ranged consistently from 10 to 14 inches. The counties of Lincoln and Warren in east-central Missouri averaged 9 to 10 inches. Table 2 (at end of report) gives precipitation totals and recurrence intervals at six sites for the December 2–5 storm in Missouri (Waite and Alexander, 1987). The storm of December 23–27 produced only moderate flooding in extreme southeastern Missouri, where the heaviest and most intense rainfall occurred. During the entire month, rainfall averaged 2.5 inches above normal at Kansas City, 5 to 6 inches above normal at Columbia and St. Louis, and 6.5 inches above normal at Springfield.

Arkansas

Throughout Arkansas excessive rainfall caused extreme flooding on many streams. Rainfall exceeded 8 inches in a band from Foreman and Ashdown northeastward through Clarksville and Morrilton in the 24-hour period ending at 6 a.m., December 3. Maximum 24-hour totals were 11.9 inches at Mountain View, 11.4 inches at Shirley, 12.36 inches at Mammoth Spring, 10.75 inches at Melbourne, 10.0 inches at Oden, and 10.95 inches at Ouachita. The heaviest rainfall in Arkansas occurred December 2–3 and continued in varying amounts for about 4 days. Another storm occurred December 25–27; however, the 3-day total rainfall was generally less than 10 inches, most of which fell in southeastern Arkansas (fig. 3).

Mississippi

For Mississippi, December 1982 was a record month for rainfall at almost every rain gage in the State. More than 20 inches of rain fell during the month in a large area of the central delta and parts of the north-central and northeastern Mississippi hills. The two largest rains occurred December 3-4 and 24-27. The graph in figure 5 shows the duration and intensity of rainfall at the National Weather Service station at Jackson, Miss., for December 3-4. A total of 7.94 inches fell at the station during December 1-4; similar amounts fell in most of the State. For example, a total of 9.2 inches fell at Kosciusko during the same period. The graph in figure 6 shows the duration and intensity of rainfall at Jackson for December 24-27. Rainfall totaled 6.02 inches at Jackson and 6.00 inches at Kosciusko. Figure 7 shows cumulative rainfall for December at Tupelo, Miss. The graph is based on daily totals of rainfall at the station.

Louisiana

In Louisiana the statewide average rainfall for December 1982 was 15 inches—the highest since record-

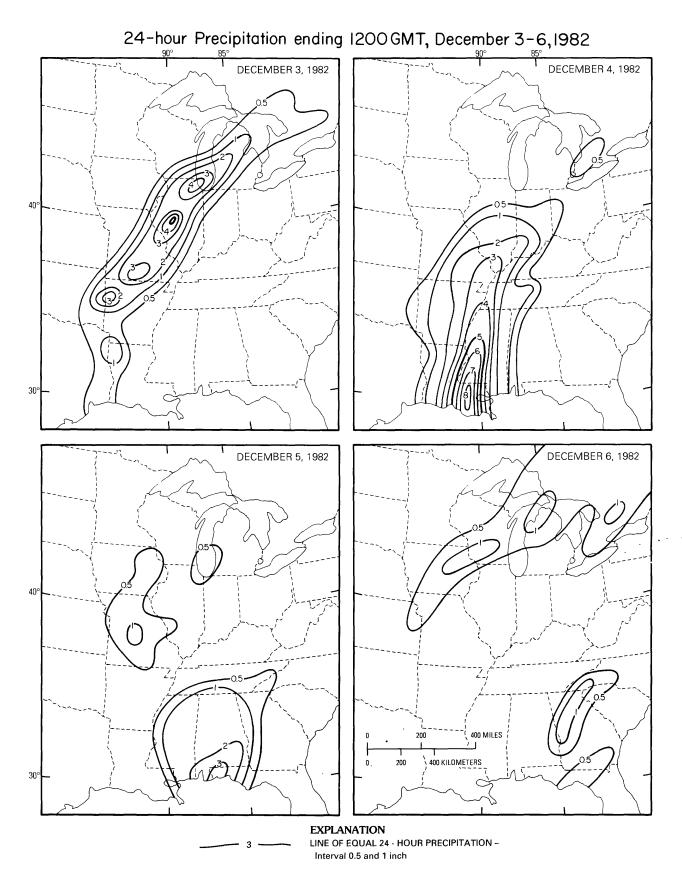


Figure 2. General distribution of heavy rains in the Mississippi River and Gulf of Mexico basins December 3–6, 1982 (from National Weather Service, December 1982).

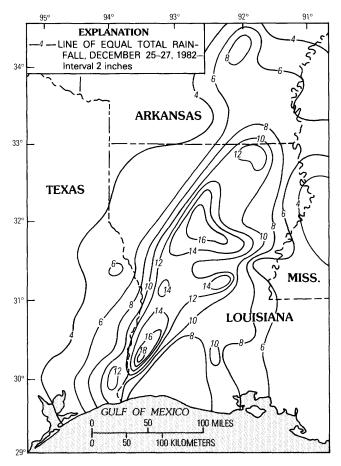


Figure 3. General distribution of heavy rains in the lower Mississippi River and Gulf of Mexico basins December 25–27, 1982 (from National Weather Service, December 1982).

keeping began in 1888. The largest recorded amount of rain in December 1982 was 25.45 inches at Belah Fire Tower near Jena. At DeRidder, 23.18 inches were recorded.

Very heavy rains occurred over almost the entire southern half of the State on December 4-5. Twentyfour-hour rainfall amounts ranged from 6 inches in the southwestern parishes to about 9 inches in parts of southeastern Louisiana. However, the largest rainfall to strike Louisiana in more than 100 years began on December 25 and continued into the early morning hours on the 28th (National Weather Service, December 1982). Rainfall averaged 15 inches over a 100-mile-wide band extending from Lake Charles in southwestern Louisiana to Monroe in the northeast. Several locations recorded total amounts of about 18 inches, 13 inches of which fell on December 26. December was the second consecutive month of excessive rainfall in Louisiana. The graph in figure 8 shows cumulative rainfall at DeRidder during October, November, and December 1982.

Storm Runoff

Runoff from the December 1982 storms resulted in recordbreaking floods on many streams in Illinois, Missouri, Arkansas, Mississippi, and Louisiana. The rates of flow in streams throughout the area were already high at the end of November because of above-normal rainfall. In addition, the high moisture saturation levels of the soils created conditions favorable for high rates of runoff in December. Consequently, the successive storms with heavy

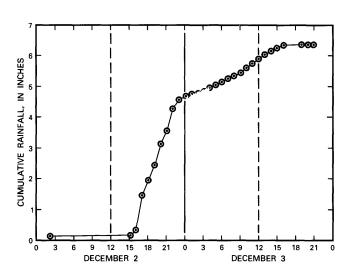


Figure 4. Mass curve of rainfall at the National Weather Service station at Springfield, III., December 2-3, 1982.

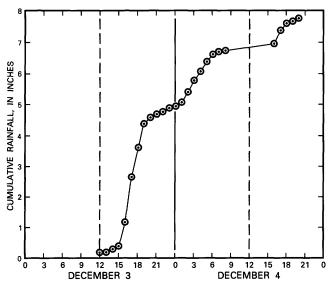


Figure 5. Mass curve of rainfall at the National Weather Service station at Jackson, Miss., December 3-4, 1982.

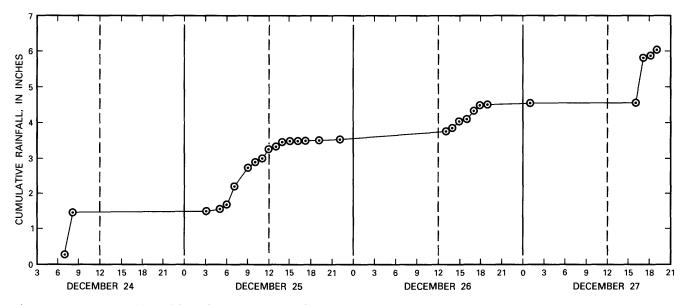


Figure 6. Mass curve of rainfall at the National Weather Service station at Jackson, Miss., December 24-27, 1982.

and intense rainfall in December produced widespread recordbreaking floods, which exceeded the 100-year flood on many streams.

Storm runoff and stage data at 491 streamflow gaging sites are given in table 3 (at end of report). The first column in table 3 is an index number assigned to each site shown on plate 1. The index (site) numbers are used for reference in illustrations, tables, and discussions only in this report. Column 2 gives the permanent number for each streamflow gaging site. The permanent number is based on the downstream order as used in annual water-resources data reports. The numbers are listed in a downstream direction along the mainstream, and stations on tributaries are listed between stations on the mainstream in the order in which those tributaries enter the mainstream. Gaged sites on tributaries to tributaries are listed in a similar manner.

On plate 1, each gaging station has been assigned a permanent number conforming to the downstream order. The complete eight-digit number for each station (such as 02429900) includes the two-digit part number (02) and the six-digit downstream order number (429900). The part number refers to an area where the part boundaries coincide with certain natural drainage divides. For this report, stations and data are listed for some areas of the following parts: Part 2, South Atlantic Slope and Eastern Gulf of Mexico basins; Part 3, Ohio River basin; Part 5, Hudson Bay and Upper Mississippi River basins; Part 6, Missouri River basin; Part 7, Lower Mississippi River basin; and Part 8, Western Gulf of Mexico basin.

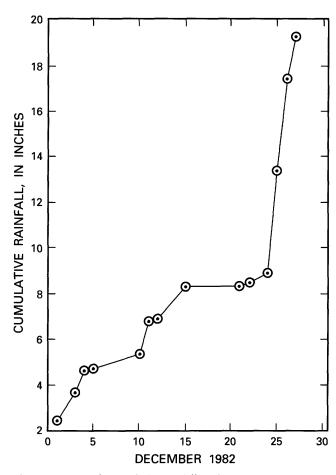


Figure 7. Cumulative daily rainfall at the National Weather Service station at Tupelo, Miss., December 1982.

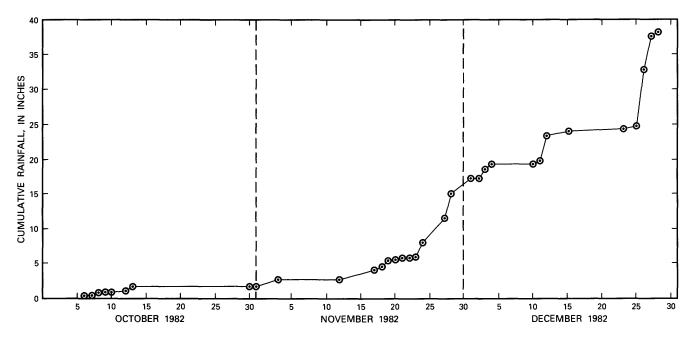


Figure 8. Cumulative rainfall at the National Weather Service station at DeRidder, La., during October, November, and December 1982.

Flood Frequency

The recurrence interval is the average interval of time, in years, between occurrences of floods that exceed a specified magnitude. For example, a flood of 100-year recurrence interval has a 1-in-100 chance, on the average, of occurring in any given year. However, the fact that a major flood occurs in any year does not affect the probability of a flood as large or larger occurring in the same year or during the next year.

Another measure of a flood's severity is its probability of being exceeded by another flood. Probability is expressed as a decimal number less than 1.0 that shows the chance of a flood being exceeded in any given year. Probability can be converted to percent chance by multiplying the decimal number by 100. The recurrence interval, or average number of years over a long period of time between floods of a given magnitude, is the reciprocal of the probability. The relations between probability, percent, and recurrence interval are as follows:

Relative measures of flood severity

Probability	Percent	Recurrence interval	
0.1	10	10	
0.04	4	25	
0.02	2	50	
0.01	1	100	
0.005	0.5	200	

For example, there is a 2-percent chance that a flood having a probability of 0.02 will be equaled or exceeded in a given year. A flood of this magnitude would occur on an average of once in 50 years. Probabilities of floods at gaged sites are computed from either a mathematical or a graphical distribution of known floods at the site during a specific time period.

Probabilities of recurrence intervals discussed in this report were obtained from a combination of regional relations and log-Pearson Type III analyses of annual peak streamflow at gaging stations (U.S. Water Resources Council, 1981).

Streamflow records from several gages can be used to derive regional relations for estimating flood magnitudes. The regional relations smooth out variations due to sampling errors and could produce better estimates of flood magnitude-frequency relations than does a short record at a single gaged site.

Discharge of December 1982 Floods

Discharges of the flood peaks, their relation to past recorded flood events, and their recurrence intervals are given in table 3. Peak discharges are listed for 282 gaged sites for the December 2–7 storms. Discharges at 63 of those sites were the greatest recorded since the stations were established, and discharges at 42 sites equaled or exceeded the 100-year flood. Peak discharges are listed for 180 gaged sites for the December 24–29 storms. Discharges at 46 of

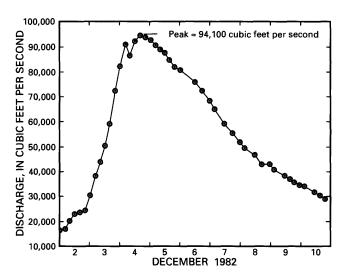


Figure 9. Discharge hydrograph for Illinois River at Marseilles, Ill., during December 2–10, 1982 (site number 165, plate 1 and table 3).

those sites were the greatest recorded, and discharges at 5 sites equaled or exceeded the 100-year flood. Many of the outstanding peaks during December were on the large streams (drainage areas more than 2,000 mi²) because of the generally wide distribution and long duration of the rainfall. The Gasconade River at Jerome, Mo. (site 208), exceeded the 100-year flood on December 5. Some of the outstanding flood peaks are described in this section. Table 3 contains additional information on flood peaks. Flood-crest elevations can be determined from table 3 by adding the gage height of the flood to the datum of the gage for stations where the datum has been determined. Datum of the gage

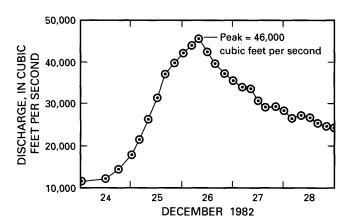


Figure 10. Discharge hydrograph for Illinois River at Marseilles, Ill., during December 24–28, 1982 (site number 165, plate 1).

above National Geodetic Vertical Datum (NGVD) of 1929 is the elevation of the "zero" reading of the gage.

Illinois was affected more severely by the early December storm than by the storm of December 24–28. The Illinois River at Marseilles (site 165), an upstream station (drainage area 8,259 mi²), for instance, exceeded the previous maximum stage by about 1.6 ft for the period since 1919. The peak discharge in 1957 was about 93,600 ft³/s. The December 4 flood peak of 94,100 ft³/s has an estimated recurrence interval of 45 years. The graph in figure 9 shows the approximate discharge of the Illinois River at Marseilles for December 2–10, 1982. Figure 10 shows the approximate discharge of the Illinois River at Marseilles December 24–28; the December 26 flood peak was about 46,000 ft³/s.

Missouri, like Illinois, was affected most by the early December storms. New peaks of record were established on many streams. The Gasconade River exceeded previous maximum flood peaks by 2.4 and 4.2 ft, respectively, at

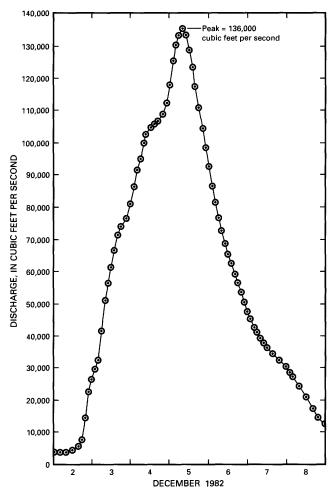


Figure 11. Discharge hydrograph for Gasconade River at Jerome, Mo., during December 2–8, 1982 (site number 208, plate 1 and table 3).

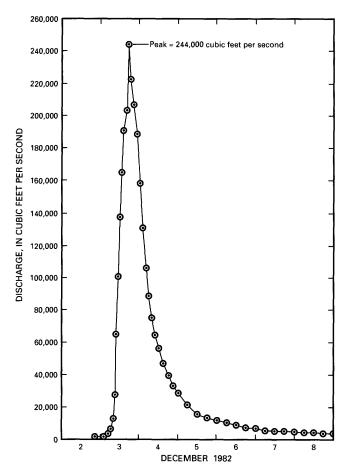


Figure 12. Discharge hydrograph for Spring River at Imboden, Ark., during December 2–8, 1982 (site number 273, plate 1 and table 3).

Jerome (since 1897) and near Rich Fountain (since 1922). The stations are represented by site numbers 208 and 209 on plate 1 and in table 3. The peak discharges of 136,000 ft³/s at Jerome and 134,000 ft³/s near Rich Fountain both exceeded the peak discharge of the 100-year flood. The graph in figure 11 shows the approximate discharge of the Gasconade River at Jerome for December 2–8, 1982. The late December storms produced minor flooding in most of Missouri; only the extreme southeastern part of the State experienced significant flooding. On December 26, Little River ditch 1 near Morehouse, Mo. (site 244), exceeded the 100-year flood discharge and established a new maximum for the period since 1945.

Arkansas had severe flooding caused by the early December storms. Record peaks were exceeded at many locations across the State. On the Spring River at Imboden (site 273), the maximum peak stage since 1915 was exceeded by about 6 ft. The December 3 peak discharge of 244,000 ft³/s was almost twice the previous maximum of 125,000 ft³/s in August 1915 and was larger than the

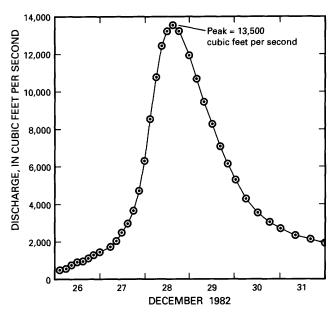


Figure 13. Discharge hydrograph for Smackover Creek near Smackover, Ark., during December 26–31, 1982 (site number 367, plate 1 and table 3).

100-year flood. Figure 12 shows the approximate discharge of the Spring River at Imboden for December 2–8, 1982. The southeastern part of Arkansas received additional flooding from the late December storms. However, most of the State experienced floods of generally less than 10-year recurrence intervals. The December 28 peak discharge of 13,500 ft³/s on Smackover Creek near Smackover, Ark. (site 367), was only about one-fourth of the maximum discharge recorded on June 8, 1974. The December 28 discharge is estimated to be a 6-year flood. The graph in figure 13 shows the approximate discharge of Smackover Creek near Smackover for December 26–31, 1982.

In Louisiana the early December storms caused only minor flooding, but the late December storms caused severe flooding on many streams. Some gaging stations recorded flood peaks that exceeded the 100-year flood. On the Dugdemona River near Jonesboro, La. (site 405), the December 28 peak stage exceeded the previous maximum since 1939 by about 1.3 ft. On Little River near Rochelle (site 410), the December 29 peak exceeded the previous maximum since 1958 by about 5.7 ft. The discharge of 41,500 ft³/s on Dugdemona River was about 1.5 times as large as the previous maximum, whereas the discharge of 108,000 ft³/s on Little River was nearly twice as large as the previous maximum. The Dugdemona River flood had a recurrence interval of more than 100 years, and the Little River flood had a recurrence interval of about 90 years. The graphs in figures 14 and 15 show the approximate discharges of Dugdemona River and Little River. Figure 16 shows the approximate discharge of Bear Head Creek near

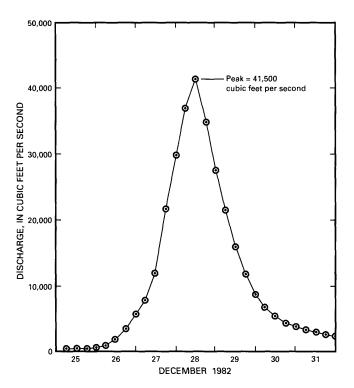


Figure 14. Hydrograph of discharge for Dugdemona River near Jonesboro, La., during December 25–31, 1982 (site number 405, plate 1 and table 3).

Starks, La. (site 483). The peak discharge of 19,100 ft³/s exceeded the 100-year recurrence interval and was the greatest since 1954.

In Mississippi, large flood peaks occurred mostly in the northern part of the State. The early December storms produced floods with recurrence intervals of about 2 years at most sites. An exception is Skuna River at Bruce, Miss. (site 322), where the December 4 peak discharge of 18,900 ft³/s had a recurrence interval of approximately 7 years. The late December storms caused larger floods in most parts of the State. The December 26 peak discharge of 39,300 ft³/s on the Skuna River at Bruce had a recurrence interval of approximately 30 years. The Yalobusha River at Calhoun City (site 321) exceeded the previous maximum flood stage since 1949 by about 1.2 ft. The December 26 peak discharge of 70,100 ft³/s exceeded that of the 100-year flood. Recurrence intervals of the flood discharges generally ranged from 2 to 20 years at other sites in Mississisppi.

Tennessee experienced some flooding in the western part of the State. During early and late December, flood discharges at most gaged sites had recurrence intervals of about 2 years. The largest flood occurred on the Hatchie River at Bolivar (site 236), where the December 30 peak discharge of 45,800 ft³/s had a recurrence interval of about 20 years. None of the previous maximum floods were exceeded during December 1982 in Tennessee.

The main stem of the Mississippi River had fairly high peaks from Illinois downstream to its mouth. However, none of the previous maximum floods were exceeded. The largest flood on the Mississippi River during December 1982 occurred at Alton, Ill. (site 196), where the peak discharge of 422,000 ft³/s had a recurrence interval of about 15 years. Recurrence intervals of the December floods at other sites on the Mississippi River ranged from less than 2 years at Tarbert Landing and Vicksburg, Miss. (sites 344 and 327, respectively), to about 5 years at St. Louis, Mo. (site 210). The peak discharges in the downstream reaches exceeded 1 million ft³/s, with a peak on January 9 of 1.4 million ft³/s at Vicksburg, Miss.

Crippen and Bue (1977) developed a family of four curves that provide a guide for estimating maximum flood flows in the study area. The curves are based on the largest known floods through 1974 and on the particular climate, topography, and geology involved. Curves A and B, shown in figure 17, are upper and lower limits enveloping the four regional curves. The curves in figure 17 indicate that floods in December 1982 were generally about one-half the potential maximum flood in large basins and about one-third in small basins. Exceptions are five gaging stations (sites 273, 279, 283, 294, and 305) in Arkansas in the White and Arkansas River basins that nearly equal the potential maximum discharge for curve B. The December peak discharge on Middle Fork Little Red River near Shirley, Ark. (site 283) exceeds curve B by about 70 percent, but it is below curve A.

Flood-Crest Elevations at Ungaged Sites

Information given in table 3 was collected at streamflow gaging stations located in the large area affected by the floods. In addition, elevations of flood crests were determined at numerous ungaged sites along some of the major streams in Illinois, Missouri, Arkansas, and Louisiana.

Records of flood-crest elevations for the early December 1982 event on the Des Plaines, Illinois, Meramec, Bourbeuse, Buffalo, White, and Arkansas Rivers are given in table 4 (at end of report). Flood-crest elevations for the late December 1982 event for two tributaries in the Mississippi River Delta are given in table 5 (at end of report).

Information given in table 4 can be used to develop water-surface profiles for the early December flood along some streams in Illinois, Missouri, and Arkansas. Figure 18 shows the flood profile for the Illinois River. Abrupt changes in the profile at some road and railroad crossings are differences in upstream and downstream water-surface elevations caused by bridge and culvert constrictions. Flooding by the early December storm was minor to moderate in Louisiana, Mississippi, and Tennessee; consequently, water-surface profiles in those States were not surveyed. During late December, however, major

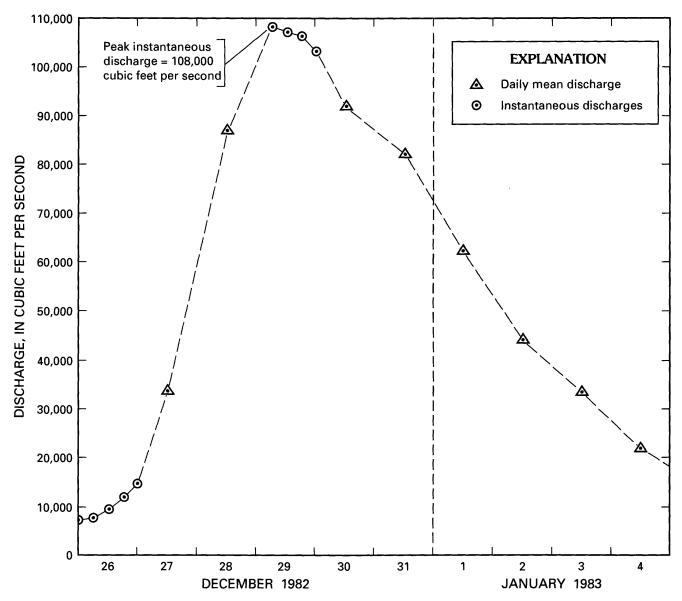


Figure 15. Discharge hydrograph for Little River near Rochelle, La., during December 26, 1982, to January 4, 1983 (site number 410, plate 1 and table 3).

floods occurred along some streams in Louisiana. Figure 19 shows the water-surface profile for the late December flood on Dugdemona River in Louisiana, which is based on data from table 5.

Flood-crest elevations at many ungaged points along streams were obtained by leveling to floodmarks identified during or immediately after the floods. Flood-crest elevations provide a means to determine the extent of overflows and are useful in land-use management of flood plain lands.

Both the U.S. Geological Survey and the U.S. Army Corps of Engineers (Little Rock, Memphis, and Vicksburg Districts) participated in flagging the floodmarks. Most of the elevations were determined by the Corps of Engineers.

Ungaged points are referred to in distance in river miles upstream from the mouth of the stream. River miles were determined by the U.S. Army Corps of Engineers unless otherwise noted. Flood-crest elevations are water-surface elevations in feet above NGVD of 1929.

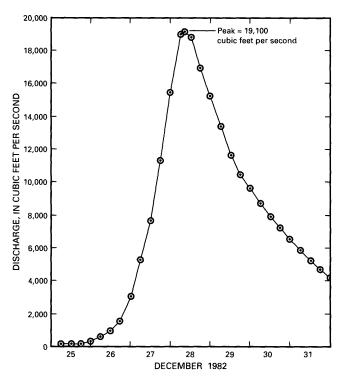


Figure 16. Discharge hydrograph for Bear Head Creek near Starks, La., during December 25–31, 1982 (site number 483, plate 1 and table 3).

Additional records of flood-crest elevations and other detailed information may be obtained from the U.S. Army Corps of Engineers and the U.S. Geological Survey.

Reservoirs

Many reservoirs are located in the Arkansas, Little River, Ouachita, White, and Yazoo River basins. Stages and contents of selected reservoirs in these basins are summarized in this section. Additional information is available in tables 6 through 13 (at end of report). Rainfall was at or above normal in October and above normal in November 1982; thus heavy rains in the first and last weeks in December had significant effects on the reservoirs. Most sites received some rainfall in mid-December that contributed to the effect of the late December rains.

Arkansas River Basin

The Arkansas River in Arkansas is regulated by a dozen dams from its mouth on the Mississippi River for about 300 navigational miles upstream to Fort Smith, Ark. The general area of the Arkansas River basin is delineated in figure 20. Data are provided in this section for 11 reservoirs (pools) that comprise most of the 300 miles (table 6). A profile of the Arkansas River (fig. 21) shows

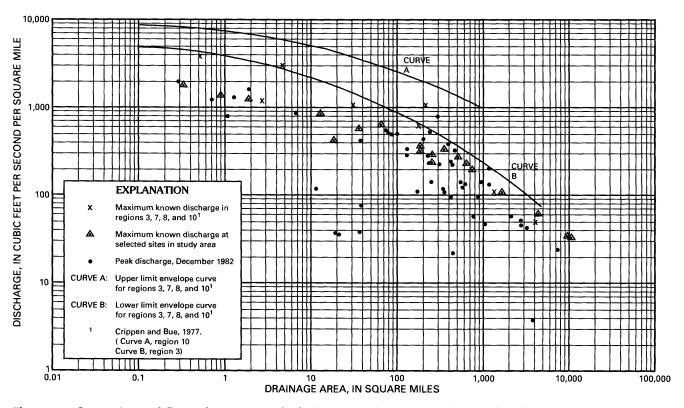


Figure 17. Comparison of December 1982 peak discharges with maximum known flood peaks in the study area.

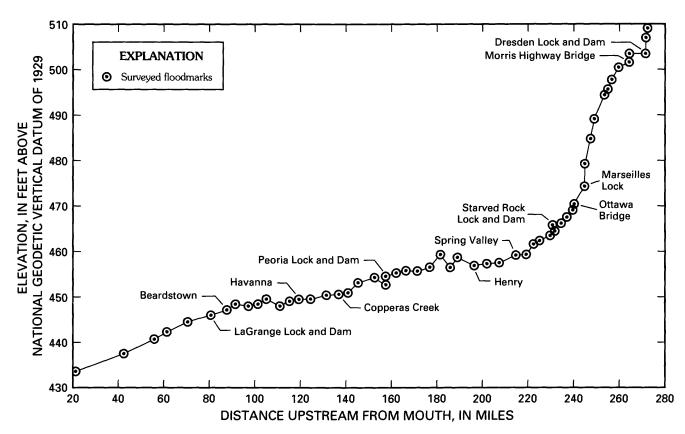


Figure 18. Profile of early December 1982 flood on Illinois River (from table 4).

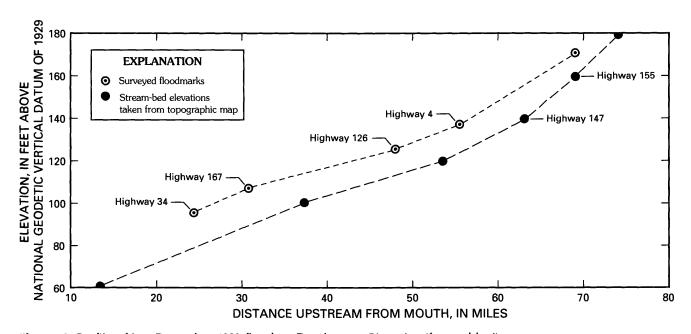


Figure 19. Profile of late December 1982 flood on Dugdemona River, La. (from table 4).

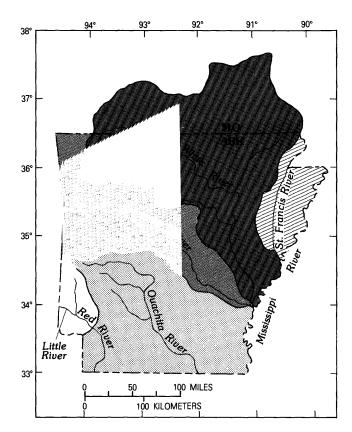


Figure 20. Location and general delineation of major river basins in Arkansas (from U.S. Army Corps of Engineers, Little Rock District, May 1983).

locations of the dams by navigation miles as well as the December 1982 flood profile. Two additional reservoirs contribute flows to the Arkansas River via tributaries: Blue Mountain Lake via Petit Jean River, and Nimrod Lake via Fourche River. The mouth of the Petit Jean River is about midway between locks and dams 9 and 10. The Fourche River mouth is between locks and dams 7 and 8.

The elevation of Blue Mountain Lake was nearly constant at 384 ft in November 1982 until the rains of November 27–28 caused a rise to an elevation of 385.17 ft on November 29. The heavy rains of December 3 caused a 23-ft rise to an elevation of 407.57 ft on December 7, using 53 percent of its flood-storage capacity. The lake declined about 7 ft until the rains of December 24–28 caused a 3-ft rise. The lake returned to conservation pool level on February 11, 1983. Elevations, contents, change in storage, and daily rainfall amounts for Blue Mountain Lake are given in table 7 for December 1982.

The elevation of Nimrod Lake was nearly constant at 341.7 ft in November 1982 until the rains of November 26–28 caused a rise to 350.2 ft on November 29. The lake then declined nearly 3 ft by December 2. Heavy rains

beginning on December 3 caused a more than 26-ft rise to peak on December 6 at elevation 374.08 ft. This rise filled the flood pool on December 6 and rose 1.1 ft into the surcharge pool, spilling 600 ft³/s through the spillway. The lake returned to conservation pool elevation on February 11, 1983. Elevations, contents, change in storage, and daily rainfall totals for Nimrod Lake are shown in table 7 for December 1982.

For 11 dams on the Arkansas River (numbers 2 through 13 [no dam 11]), rainfall in late November ranged from 1.3 to 4.5 inches. The effect on elevation was minimal, with fluctuations of about 1 ft or less. However, heavy rains of 1.3 to 11.6 inches December 2–6, most or all of which fell on December 3, caused pool elevations to rise from 0 to 16 ft. Nearly as much rain (2.4 to 6.4 inches) fell December 24–28, 1982, but increased the elevation 1 ft or less. The rainfall totals and elevation changes for December at the dams are given in table 8.

Little River Basin

The Little River in southwest Arkansas flows through Millwood Lake, and about 5 mi downstream it enters the Red River (fig. 22). Upstream, less than 40 mi from Millwood Lake and on tributaries, are DeQueen, Gillham, and Dierks Lakes. The responses of these four lakes to rains in November and December 1982 are summarized in the following paragraphs. Table 9 lists daily rainfall, reservoir elevations, contents, and change in storage at each dam for November and December.

Gillham Lake rose more than 31 ft to a flood elevation of 527.44 ft on November 29 as a result of rainfall November 26–28. The lake then declined nearly 5 ft by December 2 but rose more than 38 ft as a result of heavy rainfall December 3 to a flood elevation of 561.50 ft on December 5, using more than 80 percent of its flood storage capacity.

DeQueen Lake experienced heavy rains on November 26–28, 1982, and rose nearly 7 ft by month-end. Heavy rains December 3 caused DeQueen Lake to rise an additional 17 ft to a flood elevation of 463.93 ft on December 6, using 66 percent of its flood storage capacity. The lake declined steadily until the 2.8-in rainfall December 24–28. The lake rose from 446.75 ft to 448.74 ft by December 28. DeQueen Lake returned to conservation pool level by February 16, 1983.

Dierks Lake rose 10 ft as a result of rainfall November 26–28, 1982, to a flood elevation of 534.10 ft on November 29. More than 12 inches of rain on December 3 caused a rise of nearly 25 ft that culminated on December 5 with a flood elevation of 558.00 ft. The lake declined about 7 ft until the rains of December 25–28 caused a modest rise of 1.5 ft. Dierks Lake returned to a conservation pool level by February 16, 1983.

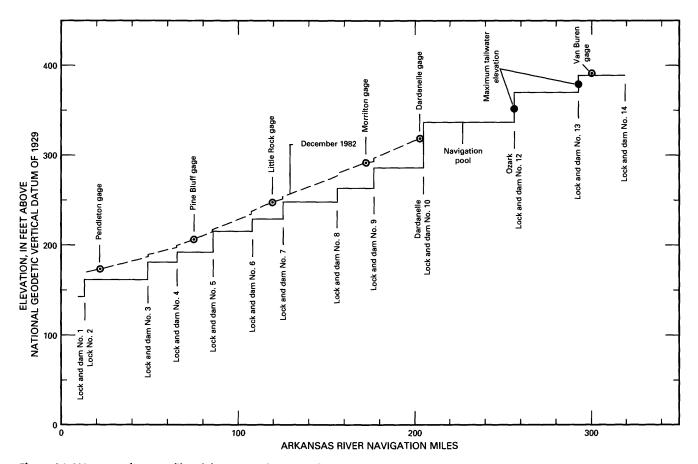


Figure 21. Water-surface profile of the December 1982 flood on the Arkansas River showing location of locks and dams by navigational miles (from U.S. Army Corps of Engineers, May 1983).

Millwood Lake in November 1982 had an average elevation of about 259 ft until the 3.3 inches of rain November 26–28 caused the lake to rise to an elevation of 261.78 ft on November 30. More than 6 inches of rain fell on December 3, causing the lake to rise more than 7 ft to elevation 269.17 ft on December 5 and using 24 percent of its flood storage capacity. The lake steadily declined to elevation 259.62 ft on December 22. Nearly 3 inches of rain fell during December 24–28 and caused a peak of 261.09 ft on December 30. Millwood Lake returned to conservation pool elevation by February 16, 1983.

Ouachita River Basin

The Ouachita River basin (fig. 20) upstream from Arkadelphia, Ark., includes mainstem reservoirs of Ouachita, Hamilton, and Catherine Lakes and, by tributary, DeGray Lake. Rainfall was well above normal for October and November 1982. The heavy rains of December 2–3, 1982, caused severe flooding on almost every major tributary in the Ouachita River basin. Lake Ouachita set a new

record peak stage of 590.1 ft December 5–6. The previous record peak was 588.1 ft in 1968. DeGray Lake also had a record peak of 420.5 ft on December 5, 1982, which exceeded the 417.8-ft peak of 1974. Daily elevations and changes in storage are shown in table 10 for Lakes Ouachita and DeGray for November and December 1982 and January 1983. Hourly elevations and outflow data are shown for December 2–3, 1982, for Lakes Catherine and Hamilton (table 11).

White River Basin

Flood data are provided for five reservoirs in the White River basin. The general area of the White River basin is delineated in figure 20. Beaver, Table Rock, and Bull Shoals Lakes are on the main stem of the White River, and Norfolk and Greers Ferry Lakes enter the main stem through tributaries. These lakes are in northwestern Arkansas and southwestern Missouri. Elevations, contents, changes in storage, and daily rainfall totals for these lakes are given in table 12.

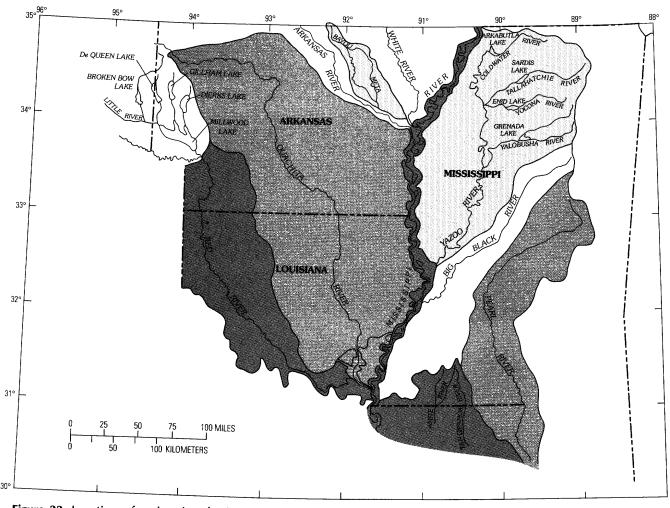


Figure 22. Location of major river basins in parts of Arkansas, Louisiana, and Mississippi (from U.S. Army Corps of Engineers, August 1983).

Beaver Lake near Fayetteville, Ark., received 3.60 inches of rain November 26–28, 1982, and rose 1.8 ft to elevation 1,112.42 ft by month-end. Heavy rains of 7.51 inches December 2–5 (6.21 inches December 3) caused the lake to rise about 7.7 ft to elevation 1,120.09 ft by December 6. The lake continued to rise slowly to elevations over 1,124 ft by January 2, 1983, and remained high during January.

At Table Rock Dam 2.22 inches of rainfall November 26–28, 1982, caused the lake to rise about 1-ft to elevation 915.95 ft by the end of the month. On December 2–5, 3.89 inches of rain caused a 10.7-ft rise to elevation 926.69 ft by December 6, using 71 percent of flood storage capacity. Lake elevations steadily declined to elevation 917.08 ft by month-end.

At Bull Shoals Dam 2.77 inches of rain fell November 26–28, causing a 2.6-ft rise in lake level to elevation

654.72 ft by month-end. On December 2–5, 6.50 inches of rain caused the lake to rise 13.5 ft to elevation 668.25 ft by December 6. The lake continued to rise to elevation 678.10 ft at month-end and peaked at 680.03 ft on January 8, 1983.

At Norfolk Dam 3.57 inches of rain occurred November 26–28, 1982, and the lake rose 2.5 ft by month-end. On December 2–5, 8.73 inches of rain caused the lake to rise nearly 17 ft to elevation 563.45 ft by December 6. The lake continued a slow rise to elevation 565.53 ft on December 14 and 15 and then began a slight decline until December 24, when rains caused a steady rise to elevation 556.87 ft on December 31; elevation peaked at 567.30 ft on January 6, 1983.

At Greers Ferry, 3.71 inches of rain occurred November 27–29, 1982, and the lake rose nearly 4 ft to elevation 457.18 ft by month-end. On December 3–5, 5.91 inches of rain fell, and the lake rose more than 21 ft by December 6

to elevation 478.58 ft. The lake continued to rise to elevation 479.40 ft on December 13, then declined slowly until 5.66 inches of rain December 24–28 caused a 4-ft rise to elevation 482.31 ft by month-end; the slow decline then continued throughout January 1983.

Upper Yazoo River Basin

Flood data are provided for four reservoirs on tributaries in the Upper Yazoo River basin (fig. 22): Arkabutla Lake on Coldwater River, Enid Lake on Yocona River, Grenada Lake on Yalobusha River, and Sardis Lake on Little Tallahatchie River. Elevations, contents, and change in storage for these reservoirs are given in table 13.

Arkabutla Lake elevations steadily declined during November 1982 until rains caused a rise from 215.2 ft on November 26 to 217.5 ft on November 30. Rainfall of 5.26 inches December 1–5 caused the lake to rise 11 ft to peak on December 8 at elevation 228.9 ft. The lake declined, rose slightly, and declined again until 5.56 inches of rain on December 23–28 caused nearly a 9-ft rise from 229.2 ft December 25 to 238.1 ft January 2.

Enid Lake elevations steadily declined during November 1982 until rains caused a rise from 244.6 ft November 27 to 248.0 ft November 30. Rainfall of 6.14 inches December 1–5 caused the lake to rise 6.7 ft to elevation 255.0 ft on December 8. Some mid-December rains caused a gradual rise of about 2 ft; then a gradual decline occurred, until 8.08 inches of rain fell December 23–28. This caused the lake to rise more than 10 ft from elevation 256.7 ft on December 25 to 267.23 ft on January 10, 1983.

Grenada Lake steadily declined about 4 ft during November 1982 until rains caused a rise from 205.4 ft on November 27 to 209.3 ft November 30. Rainfall of 7.05 inches December 1–5 caused the lake to rise 11.7 ft to elevation 221.0 ft December 18–21. The lake fell 0.4 ft until 9.90 inches of rain December 23–28 caused the lake to rise 11.7 ft to 232.3 ft January 10–12, 1983.

Sardis Lake elevation declined more than 8 ft during November until rains caused a 2-ft rise from 246.4 ft November 26 to 248.3 ft November 30. Rainfall of 5.43 inches December 1–5 caused nearly a 9-ft rise to 257.5 ft December 9. The lake rose steadily to level off at about 261.5 ft December 19–25. Rainfall of 5.43 inches December 23–28 caused nearly a 14-ft rise to elevation 275.2 ft on January 11–14, 1983.

Flood magnitudes from the December storms would have been much greater without storage provided in the reservoirs. Estimates of change in storage for some tributaries in Arkansas and Mississippi are given in tables 7–10, 12, and 13.

Flood Damage

The flood damage resulting from the devastating storms in December 1982 was so large and widespread throughout the area that only estimates of the economic effects can be described. Accurate assessment of the economic effects will never be available, because of the extensive nature of the flooding and the limited damage assessment capabilities of Federal, State, and local officials concerned with the disaster. Damage estimates for Arkansas and parts of Missouri, Louisiana, and Mississippi were reported by the U.S. Army Corps of Engineers' Memphis, Little Rock, and Vicksburg Districts. Reports show that damage in those areas totaled about \$205 million. That estimate excludes damage in most of Missouri and all of Illinois. A partial list of monetary damages compiled from information provided by the Corps of Engineers is given in table 14 (at end of report) for major river basins.

Damage from the floods was greatest in the Tensas and White River basins (\$53.5 million and \$45 million, respectively), where most of the losses occurred in commercial, industrial, and residential areas. Agriculture losses were relatively small in comparison to other categories because of the time of year. Had the floods occurred during the prime growing season, agricultural losses would have been considerably larger.

Flood damage would have been much larger without the storage provided in reservoirs at U.S. Army Corps of Engineers' projects along most of the major streams. The Corps of Engineers reported that damage prevented by storage in the reservoirs totaled about \$328 million. Estimates of monetary damage prevented are given in table 15 (at end of report) for major river basins.

The floods and storms caused 25 deaths from Illinois to Louisiana. The National Weather Service reports show 22 deaths from flooding and 3 from tornadoes. Table 16 (at end of report) gives number of deaths reported in each of the five States during the early and late December storms.

SUMMARY OF DECEMBER 1982 FLOODS

Heavy and intense rainfall occurred during two separate periods in December 1982. The first rains occurred December 2–7 and caused severe flooding along many streams in Illinois, Missouri, and Arkansas. Much of the area experienced recordbreaking 24-hour rainfall amounts, which caused record or near-record flooding. The second rainstorms occurred December 24–29 and caused severe flooding in Louisiana and moderate flooding in Mississippi. Total December 1982 rainfall in western Tennessee was generally less than 10 inches and produced only minor flooding along some streams.

Peak discharges from the storms exceeded the 100year flood on many streams and at some sites exceeded the largest discharge recorded since the stations were established 50 to 80 years ago. Peak discharges equaled or exceeded the 100-year flood at 42 gaged sites for the December 2–7 storms and at 5 sites for the December 24–29 storms.

Peak stages of record were exceeded at many locations in Illinois, Missouri, and Arkansas. The Illinois River at Marseilles exceeded the previous maximum stage in 1919 by 1.6 ft. The Gasconade River near Rich Fountain, Mo., exceeded the previous maximum stage in 1922 by 4.2 ft. On the Spring River at Imboden, Ark., the previous maximum stage in 1915 was exceeded by about 6 ft. All those record peak stages occurred during the early December storms. The late December storms caused severe flooding in Louisiana, and the western part of Mississippi. In Louisiana, the Little River near Rochelle reached a peak stage on December 29 that exceeded the previous maximum in 1958 by 5.7 ft. The Yalobusha River at Calhoun City, Miss., exceeded the previous maximum peak stage in 1949 by 1.2 ft.

The U.S. Army Corps of Engineers reported that peak stages would have been considerably higher on many streams without the storage provided by reservoirs. The reservoirs reportedly prevented approximately \$328 million in damage to property. Total damage was estimated to be about \$205 million in Arkansas, Louisiana, and parts of Missouri and Mississippi. Damage was largest in the Tensas and White River basins.

Twenty-five deaths resulted from the December storms, nineteen during the early December storms and six during the late December storms.

FLOODS OF APRIL 1983

As much as 17 inches of rain fell in 5 days in parts of southern Mississippi and southeastern Louisiana (fig. 1). The most intense rainfall occurred April 4–6 when severe thunderstorms passed over the area. Less intense rainfall on April 7–8, combined with heavy rain during the severe thunderstorms, produced major flooding on the Pearl and nearby rivers. Much of the area received 24-hour rainfall amounts in excess of 5 inches during the 5-day period. Rainfall data for the storms were collected by the National Weather Service.

Storm History

A near-stationary cold front of April 4–8, 1983, moved slowly across southeastern Louisiana and southern Mississippi. The system brought warm, moist air over the lower Mississippi River basin and created atmospheric disturbances over the Gulf of Mexico that produced very heavy thunderstorms and intense rainfall rates. Locally, rain fell at a rate of 1 inch per hour or more for an extended period (Carlson and Firda, 1983). The intense rainfall during this storm, combined with larger than normal

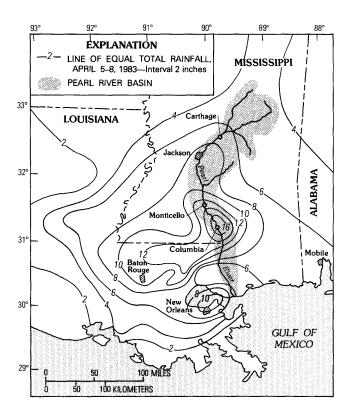


Figure 23. General distribution of heavy rains in southeastern Louisiana and southern Mississippi during April 5–8, 1983.

amounts of rainfall during the past several months, produced high rates of runoff and extreme flooding on many streams. Figure 23 shows the pattern of rainfall during April 5–8, 1983, in southeastern Louisiana and southern Mississippi.

Total precipitation amounts in April 1983 commonly exceeded 10 inches throughout the affected area and locally exceeded 15 inches. Largest amounts generally occurred in the Baton Rouge and New Orleans, La., areas and in the Columbia and Tylertown, Miss., areas. Table 17 (at end of report) gives cumulative amounts of rainfall in Louisiana and Mississippi April 4-8. The most intense 24-hour rainfall was reported in the eastern part of New Orleans, where 16.9 inches fell on April 7. The 24-hour total has a frequency in excess of 100 years according to Hershfield (1961). The 100-year 24-hour frequency in this general area is 10.5 inches. The Columbia, Miss., station reported a 24-hour total of 13.9 inches of rainfall on April 7. Figures 24 and 25 show graphs of the duration and intensity of rainfall at the National Weather Service station at Tylertown and Purvis, Miss., respectively, for April 5-7, 1983. Figure 26 represents cumulative rainfall for April 1983 at Jackson, Miss. The graph is based on daily totals of rainfall at the station. The heavy and intense rainfall produced high rates

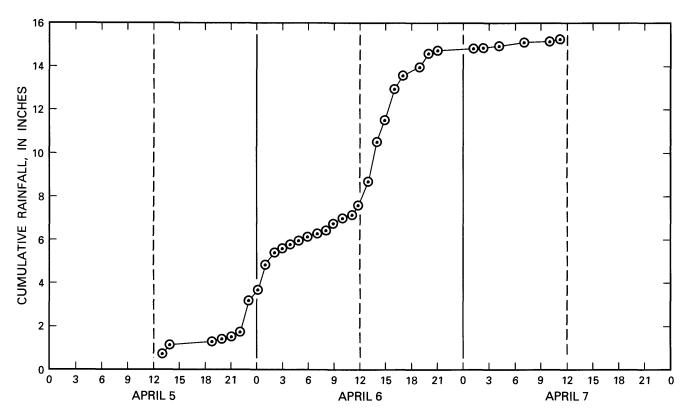


Figure 24. Mass curve of rainfall at the National Weather Service station at Tylertown, Miss., during April 5-7, 1983.

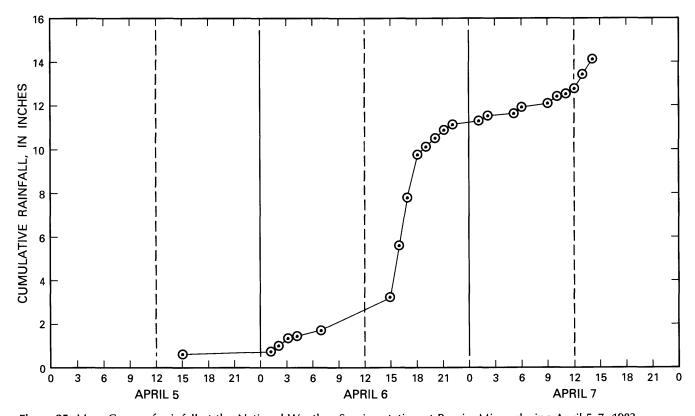


Figure 25. Mass Curve of rainfall at the National Weather Service station at Purvis, Miss., during April 5–7, 1983.

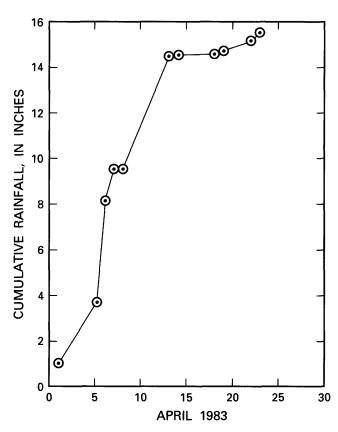
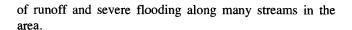


Figure 26. Cumulative daily rainfall for April 1983 at the National Weather Service station at Jackson, Miss.



General Description of Storm Runoff

Streams throughout the flood area were flowing more than normal at the beginning of April 1983 owing to rainfall that had exceeded normal ranges over most of the area during the 4 or 5 preceding months. Soils and ground cover were well saturated at the beginning of the storm period, a factor that contributed substantially to rapidly rising streams and high runoff yields. Peak runoff from the storms exceeded the 100-year flood on many streams in southeastern Louisiana and southern Mississippi.

Maximum discharge rates at about three-fourths of the streamflow gaging stations occurred on April 5, 6, or 7. Peak flows at some sites were delayed until April 9 or 10 on streams with large (more than 1,000 mi²) drainage areas. Storm runoff and stage data collected during the April storms are presented in table 3. Discharges of the flood peaks, their relation to past recorded floods, and their

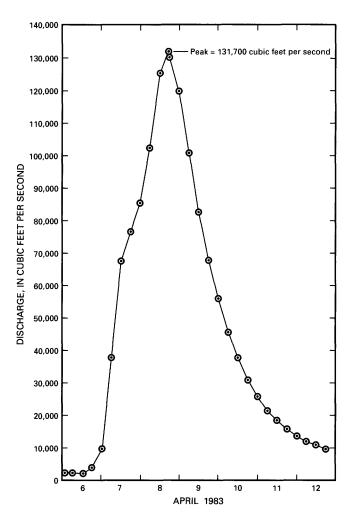


Figure 27. Discharge hydrograph for Bogue Chitto near Bush, La., during April 6–12, 1983 (site number 124, plate 1 and table 3).

recurrence intervals are also given in table 3. Discharges at 50 sites were the greatest recorded since the stations were established, and discharges at 20 sites equaled or exceeded the 100-year flood.

Southeastern Louisiana and southern Mississippi were affected most severely by the April 1983 storms. Bogue Chitto near Bush, La. (site 124), exceeded the previous maximum by 3.9 ft for the period since 1937. The recurrence interval of the April 8 flood peak of 131,700 ft³/s exceeded 100 years. The graph in figure 27 shows the approximate discharge for Bogue Chitto for April 6–12, 1983. On the Tchefuncta River near Franklinton, La. (site 417), the previous maximum stage (since 1949) was exceeded by 3.7 ft. The peak discharge of 26,900 ft³/s has a recurrence interval greater than 100 years. The graph in figure 28 shows the approximate discharge for Tchefuncta River near Folsom, La., for April 6–10, 1983 (site 418).

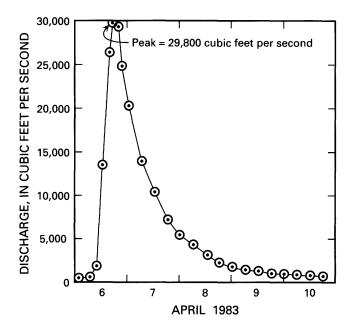


Figure 28. Discharge hydrograph for Tchefuncta River near Folsom, La., during April 6–10, 1983 (site number 418, plate 1 and table 3).

The April 1983 storms caused severe flooding on some streams in southern Mississippi. Black Creek near Brooklyn, Miss. (site 70), exceeded the previous maximum

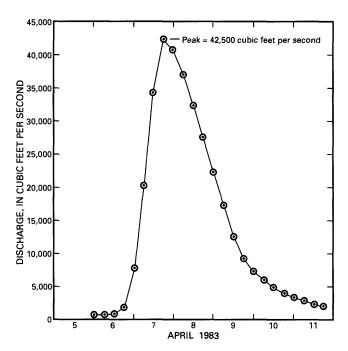


Figure 29. Discharge hydrograph for Black Creek near Brooklyn, Miss., during April 6–11, 1983 (site number 70, plate 1 and table 3).

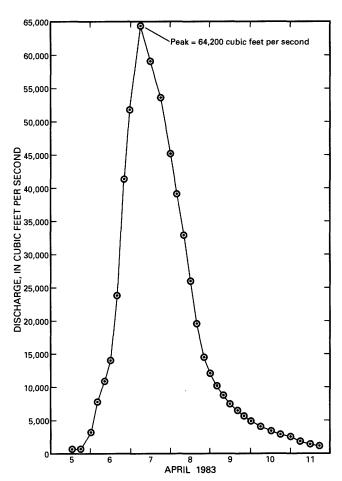


Figure 30. Discharge hydrograph for Bogue Chitto near Tylertown, Miss., during April 5–11, 1983 (site number 117, plate 1 and table 3).

flood peak in 1961 by 4.25 ft. The recurrence interval of the April 7 peak discharge of 42,500 ft³/s was greater than 100 years. Figure 29 shows the approximate discharge of Black Creek near Brooklyn for April 6–11. Bogue Chitto near Tylertown (site 117) peaked at about 0.1 ft lower than the maximum record in 1936. The peak discharge of 64,200 ft³/s on April 7, however, had a recurrence interval greater than 100 years. The graph in figure 30 shows the approximate discharge for Bogue Chitto near Tylertown for April 5–11.

A family of four regional curves, developed by Crippen and Bue (1977), provided a guide for estimating maximum flood flows in the area affected by the April 1983 storms. Curves A and B, shown in figure 31, are upper and lower limits enveloping the four regional curves. The curves in figure 31 indicate that floods in April 1983 were about one-fifth the potential maximum flood in small basins and about one-half in large basins.

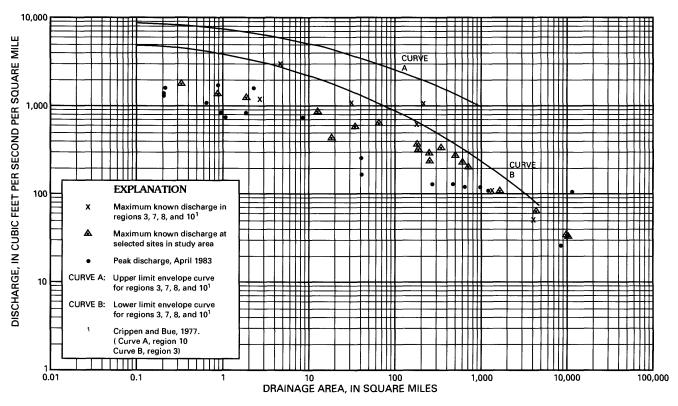


Figure 31. Comparison of April 1983 peak discharges with maximum known flood peaks in the study area.

Flood-Crest Elevations

Water-surface profiles, based on flood-crest elevations, provide a means of determining the extent of overflows and are useful in management of floodplain lands. Flood-crest elevations at many ungaged points along streams were obtained by leveling to floodmarks identified during or immediately after the floods. The flood-crest elevations are peak water-surface elevations in feet above NGVD of 1929. The ungaged points are referred to distance in river miles upstream from the mouth of the stream. River miles were determined by the U.S. Army Corps of Engineers unless otherwise noted. Flood-crest elevations are given in table 18 (at end of report) for the April flood in the Pascagoula River basin (Black and Red Creeks), Pearl River basin, and the Mississippi River Delta (Tickfaw, Amite, and Comite Rivers).

Information in table 18 can be used to delineate water-surface profiles for the April flood along the streams. Figure 32 shows the water-surface profile for Black Creek in Mississippi. Abrupt changes in the profile at the road crossings are differences in upstream and downstream water-surface elevations caused by bridge constrictions.

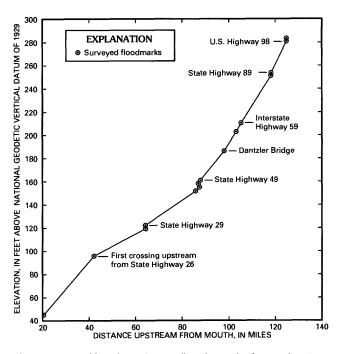


Figure 32. Profile of April 1983 flood on Black Creek, Miss. (from table 18).

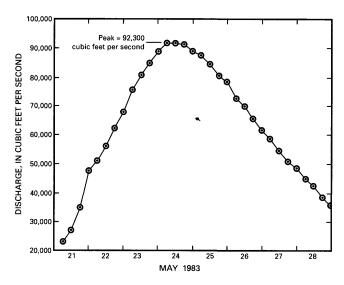


Figure 33. Discharge hydrograph for Big Black River near Bovina, Miss., during May 21–28, 1983 (site number 333, plate 1).

SUMMARY OF APRIL 1983 FLOODS

Heavy and intense rainfall totaling as much as 17 inches fell during April 4–8, 1983, in parts of southern Mississippi and southeastern Louisiana. Much of the area experienced 24-hour rainfall amounts in excess of 5 inches during the 5-day period. The severe thunderstorms caused severe flooding on many streams; the 100-year flood was equaled or exceeded at 20 streamflow gaging stations. Peak discharge and stage data were recorded at 181 stations; 50 of those had the highest recorded stage since the stations were established. Some stations experienced peak stages 3 to 4 ft higher than those recorded during the previous 25 to 40 years.

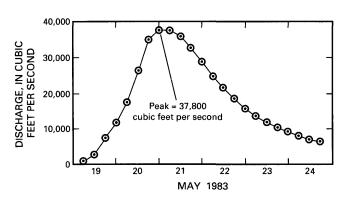


Figure 34. Discharge hydrograph for Pearl River at Burnside, Miss., during May 19–24, 1983 (site number 80, plate 1).

FLOODS OF MAY 1983

Heavy rains during May 18–22, 1983, resulted in severe flooding in the Big Black, Yazoo, Upper Mobile, and Pearl River basins in Mississippi. Total precipitation amounts commonly exceeded about 6 inches, and some isolated areas in central and northeastern Mississippi received as much as 10 inches of rainfall. Table 19 (at end of report) lists cumulative amounts of rainfall that occurred in Mississippi May 18–22.

Peak discharges, their relation to past recorded flood events, and their recurrence intervals are shown in table 3. Peak discharges at 71 sites in Mississippi during the May 18–22 storms are included. At 15 of these sites, peak discharges were the greatest recorded since the gaging stations were established. Recurrence intervals of peak discharges equaled or exceeded 100 years at five sites.

Maximum discharges occurred on the Big Black River near Bovina (site 333) on May 24 and on the Pearl River at Jackson (site 98) on May 25. The maximum discharge on the Pearl River at Burnside (site 80) occurred at midnight May 20. The graph in figure 33 shows the approximate discharge of Big Black River near Bovina, May 21–28, 1983. Figures 34 and 35 show the approximate discharges of Pearl River at Burnside and Jackson, respectively. The peak stage on Pearl River at Jackson was 273.28 ft, 3.7 ft lower than the maximum known stage there in 1974 (276.98 ft, April 17, 1979). Figure 36 shows three major flood crests on the Pearl River (April 1979, April 1983, and May 1983). Data used in figure 36 are contained in table 20 (at end of report).

Flood-crest elevations at many ungaged points along streams in the Tombigbee, Pearl, and Big Black River basins are given in table 21 (at end of report). The flood

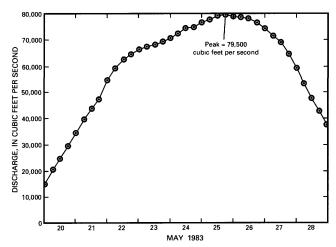


Figure 35. Discharge hydrograph for Pearl River at Jackson, Miss., during May 20–28, 1983 (site number 98, plate 1).

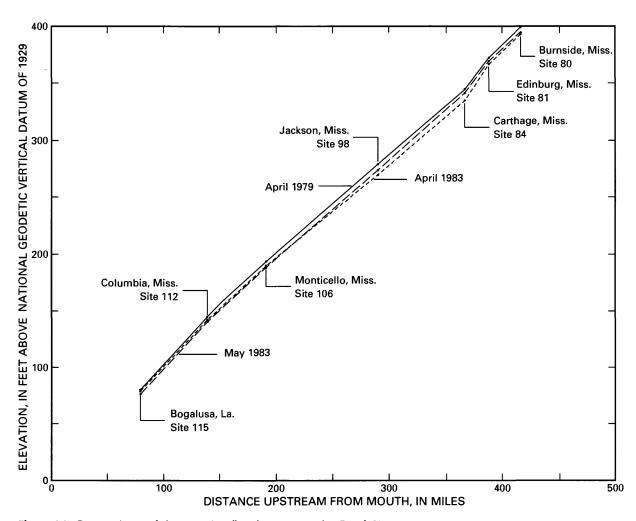


Figure 36. Comparison of three major flood crests on the Pearl River.

crests were determined by leveling to floodmarks identified during and immediately after the floods. They provide information for planning land-use management of the flood plains. Additional records of data pertaining to this flood may be obtained from the U.S. Geological Survey.

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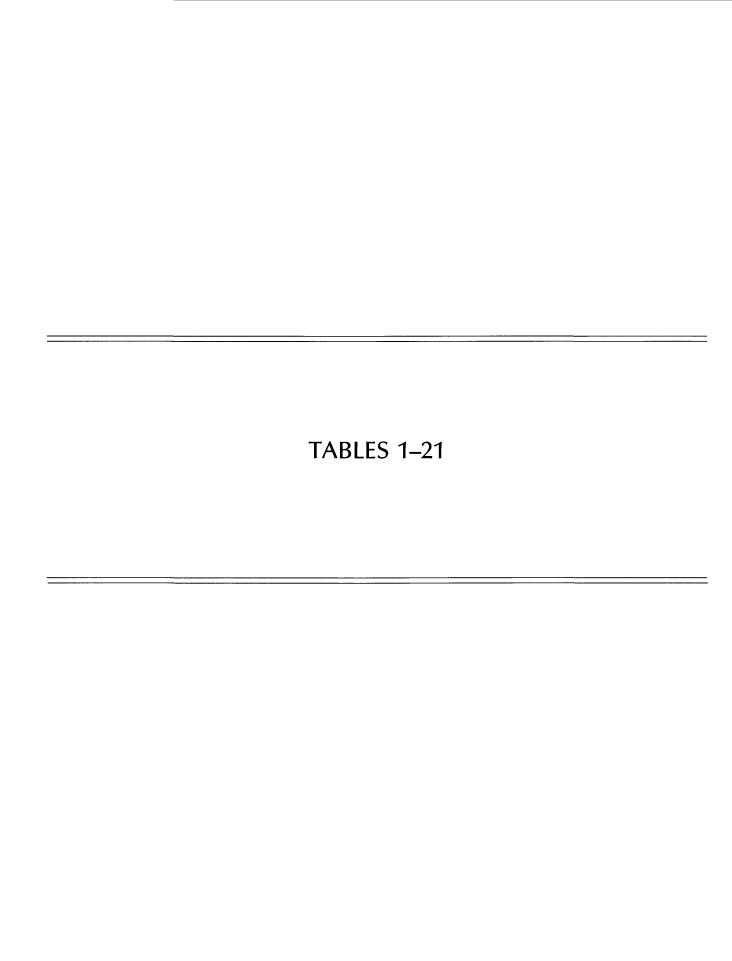


Table 1. Cumulative rainfall at selected stations in the study area for selected storms of December 1982

Station	Latitude	Longitude	Cumulative	rainfall (inches)
	ARK	ANSAS	Dec. 2-7	Dec. 24-29
Abbott	35°04′	94°12′	6.42	4.44
Alicia	35°54′	91°05′	3.70	4.77
Amity	34°17′	93°25′	9.19	3.66
Arkadelphia	34°09′	93°03′	4.03	4.00
Arkansas River, Dam 13			4.78	3.14
Arkansas River, Dam 12			6.50	5.44
Arkansas River, Dam 10			11.60	2.82
Arkansas River, Dam 9			11.20	2.34
Arkansas River, Dam 8			6.37	3.49
arkansas River, Dam 7			4.24	5.88
Arkansas River, Dam 6			1.72	6.45
Arkansas River, Dam 5			2.80	7.85
Arkansas River, Dam 4			2.54	6.21
Arkansas River, Dam 3			1.33	5.58
Arkansas River, Dam 2			2.91	7.20
Beaver Lake	36°25′	93°51′	7.51	4.34
Benton	34°33′	92°37′	4.86	4.73
Bentonville	36°21′	94°13′	4.60	2.52
Big Fork	34°29′	93°58′	14.31	2.73
Bismark	34°18′	93°21′	4.75	4.17
Blue Mountain Lake	35°06′	93°39′	8.89	1.91
Bonnerdale	34°23′	93°23′	12.50	2.20
				3.20 ^a
Botkinburg 3 NE			14.00	1.82
Č				2.71 ^a
Buffalo Tower	35°52′	93°30′	8.91	2.82
Bull Shoals Lake	36°22′	92°34′	6.50	2.90
Clarksville 6 NE			9.20	1.30
				1. 50 ^a
Clinton	35°35′	92°28′	15.67	2.10
Combs 3 SE			5.93	2.19
				2.56 ^a
Conway	35°06′	92°29′	7.10	3.25
Corning	36°24′	90°35′	3.74	6.29
Cove	34°26′	94°25′	5.24	1.84
Crystal Valley	34°42′	92°27′	2.46	5.90
Damacus	35°24′	92°23′	10.97	6.02
Danville	35°03′	93°24′	22.11	2.63
Deer	35°50′	93°12′	11.03	4.52
DeQueen Lake	34°06′	94°23′	7.71	2.80
Dierks Lake	34°09′	94°06′	12.88	2.39
Dumas	33°53′	91°29′	2.99	6.17
Eudora	33°07′	91°16′	4.69	7.21
			7.35 ^b	
Greenbrier	35°14′	92°22′	7.81	2.80
				3.68 ^a
Green Forest	36°20′	93°26′	5.11	1.43
Greenwood	35°13′	94°13′	4.82	2.47
Greers Ferry Lake	35°31′	92°00′	5.93	3.29
Gillham Lake	34°13′	94°14′	9.56	2.37
Gurdon	33°55′	93°09′	3.77	5.20
Hardy 2 SW			12.72	4.69
•				6.16 ^a

^aCumulative rainfall for December 23–28, 1982. ^bCumulative rainfall for December 1–6, 1982.

Table 1. Cumulative rainfall at selected stations in the study area for selected storms of December 1982—Continued

Station	Latitude	Longitude	Cumulative	rainfall (inches)
	ARKANSA	S—Continued	Dec. 2-7	Dec. 24-29
Hector	35°26′	93°00′	7.87	.65
Hope	33°43′	93°33′	4.51	4.85
Hopper	34°22′	93°40′	3.47	3.41
Hot Springs	34°31′	93°03′	6.55	4.57
Jasper	36°01′	93°11′	8.74	2.29
Jessieville	39°42′	93°04′	11.40	5.44
Lead Hill	36°25′	92°55′	6.72	1.86
Leola	34°10′	92°35′	1.85	6.91
Mammoth Spring	36°19′	91°32′	14.08	6.65
Marshall	35°55′	92°37′	8.12	.70
Melbourne	36°05′	91°59′	14.34	3.26
	34°34′	91°16′	6.79	2.11
Mena	34 34 33°41′			2.11
		93°58′	5.73	
Mount Ida	34°32′	93°36′	11.10	2.72
Mountain View	32°52′	92°07′	15.86	5.03
Mulberry	35°34′	94°01′	5.17	2.06
Natural Dam	35°38′	94°23′	3.15	1.55
Newport	35°36′	91°17′	4.81	3.94
Nimrod Lake	34°57′	93°10′	10.62	2.28
Norfolk Lake	36°15′	92°14′	8.73	2.86
Odell	35°48′	94°24′	3.95	2.65
Oden	34°37′	93°46′	10.55	3.58
Ozone	35°38′	93°27′	3.70	3.00
Parks	34°48′	94°00′	8.39	1.31
Perry	35°03′	92°48′	11.98	3.73
Pine Bluff	34°13′	92°01′	2.09	9.27
Pine Ridge	34°35′	93°54′	9.00	3.10
Piney Grove	34°11′	93°12′	5.72	3.98
Ratcliff	35°18′	93°53′	5.85	2.92
Rohwer	33°48′	91°16′	3.51	8.98
Salem	36°22′	91°50′	11.83	3.95
_	35°15′	91°45′	2.28	5.75
Searcy	36°10′	91 43 94°32′	3.22	
Siloam Springs			= :	1.27
Sparkman	33°55′	92°50′	1.94	6.04
Stuttgart	34°29′	91°32′	2.64	4.39
Subiaco	35°18′	93°39′	7.41	1.09
Table Rock Lake	36°36′	93°19′	3.89	1.45
Waldron	34°54′	94°06′	6.99	1.78
Warren	33°36′	92°06′	2.50	7.94
Washita	34°39′	93°32′	12.95	.70
	ILLINOIS		Dec. 1-7	1.10 ^a Dec. 23–28
Angueta	40°14′	90°56′	5.2	2.6
Augusta				
Cairo WSD	37°00′	89°10′	4.29	4.81
Chicago O'Hare	41°59′	87°54′	5.37	2.97
Dixon Springs	37°26′	68°40′	6.52	6.73
Fairbury Water Works	40°44′	88°31′	5.4	2.1
Greenfield	39°21′	90°13′	6.6	1.7
Harrisburg Disposal Plant	37°45′	88°32′	6.1	5.3
Jacksonville 2 E	39°44′	90°12′	6.6	2.2
Marietta	40°30′	90°23′	3.71	2.70
Mason City 1 NW	40°13′	89°43′	5.85	2.21
Reno Lake Dam	38°02′	88°58′	7.11	6.05
Springfield	39°50′	89°40′	6.95	1.60

^aCumulative rainfall for December 23–28, 1982.

Table 1. Cumulative rainfall at selected stations in the study area for selected storms of December 1982—Continued

Station	Latitude	Longitude	Cumulative rainfall (inches)			
	ILLINOIS	—Continued	Dec. 1-7	Dec. 23-28		
Washington 1 WSN	40°42′	89°25′	4.1	1.9		
Waterman 1 ESE	41°46′	88°45′	3.84	1.33		
		ISIANA	Dec. 1-5	Dec. 22-28		
			DCC. 1-3			
Abbeville	29°58′	92°08′		7.52		
Aimwell Fire Tower	31°48′	91°58′		12.22		
Alexandria	31°19′	92°28′		11.89		
Antioch Fire Tower	32°53′	93°00′		4.98		
Ashland	32°01′	93°06′		7.74		
Bastrop	32°47′	91°54′		12.22		
Bayou Sorrel Lock	30°08′	91°19′		5.76		
Beaver Fire Tower	30°48′	92°35′		9.18		
Belah Fire Tower	31°38′	92°11′	6.16	16.41		
Bienville 3 NE	32°22′	92°56′		8.32		
Bodcau Fire Tower	32°42′	93°31′		4.21		
Boyce 3 WNW	31°23′	92°43′		11.63		
Bunkie	30°57′	92°10′		8.25		
Butte La Rose	30°17′	91°41′		6.18		
Calhoun Exp. Sta	32°31′	92°20′		13.23		
Clinton			9.35			
Columbia Locks	32°10′	92°06′		9.15		
Converse	31°45′	93°42′		5.06		
Cotton Valley	32°49′	93°25′		3.28		
Coushatta 5 S	31°58′	93°20′		4.84		
Crowley Exp. Sta	30°15′	92°22′		11.62		
DeQuincy 4 N	30°31′	93°26′		15.65		
DeQuincy Fire Tower	30°22′	93°28′		22.89		
DeRidder	30°53′	93°17′	4.07	23.18		
Elizabeth	30°51′	92°47′		17.98		
Epps 6 WNW	32°37′	91°34′		8.29		
Eunice	30°29′	92°26′		8.63		
Franklinton 2	30 2))2 20	7.39	0.03		
Gorum Fire Tower	31°25′	92°54′		14.17		
Grand Cane Fire Tower	32°08′	93°48′		3.58		
Grand Coteau	30°26′	92°02′		10.36		
Grand Ecore	31°48′	93°06′		12.78		
Greenwood Fire Tower	32°25′	94°00′		4.19		
Hackberry 8 SSW	29°53′	93°25′		6.63		
Hanna 3 S	31°54′	93°21′		5.94		
Hodges Gorden	31°22′	93°23′		11.08		
Homer Exp. Sta.	32°45′	93°04′		5.11		
Hosston	32°53′	93°53′		4.23		
	29°57′	93°43′		7.94		
Jeaneretta Exp. Sta.	30°12′	91°43′ 92°40′		7.60		
Jennings		92°42′		14.64		
Jonesboro Fire Tower	32°13′ 31°29′			6.21		
Jonesville Locks		91°51′				
Keithville	32°21′	93°50′		5.03		
Kinder 3 W	30°30′	92°54′		7.60		
Koran	32°25′	93°28′		4.81		
Lafayette FAA AP	30°12′	91°59′		6.17		
Lake Charles 2 N	30°15′	93°13′		6.75		
Lake Charles WSD AP	30°07′	93°13′		8.03		
Lake Providence	32°48′	91°10′		6.48		
Leesville	31°09′	93°16′		15.22		
Logansport 4 ENE	31°59′	93°57′		9.96		
Longville	30°36′	93°14′		20.26		

Table 1. Cumulative rainfall at selected stations in the study area for selected storms of December 1982—Continued

Station	Latitude	Longitude	Cumulative rainfall (inches)			
	LOUISIAN	A—Continued	Dec. 1-5	Dec. 22-28		
Mansfield 3 WSW	32°01′	93°44′		10.42		
Many	31°34′	93°29′		12.95		
Marion	32°54′	92°15′		19.88		
Marksville	31°19′	92°02′		8.22		
Martin Fire Tower	32°05′	93°13′		5.78		
Melville	30°41′	91°45′		7.63		
Mermemtau	30°11′	92°35′		10.17		
Minden	32°35′	93°17′		4.14		
Mittie 2 SE	30°42′	92°53′		11.43		
Monroe FAA AP	32°31′	92°03′		9.30		
Monroe NLU	32°32′	92°04′		11.84		
Mooringsport I N	32°42′	93° 5 8′		3.86		
Natchitoches	32 42 31°46′	93°05′		12.93		
	30°41′	93 03 91°22′		7.37		
New Roads 5 ESE						
Oakdale	30°49′	92°41′		10.27		
Oak Grove 2 WSW	32°51′	91°26′		6.80		
Oberlin Fire Tower	30°36′	92°47′		8.58		
Old River Lock	31°00′	91°40′		6.30		
Olla 3 SSW	31°52′	92°16′		10.13		
Opelousas	30°29′	92°04′		9.30		
Plain Dealing	32°54′	93°41′		3.53		
Robson	32°21′	93°39′		1.74		
Rockefellow W.L. Refuge	29°44′	92°49′		6.07		
Rodessa	32°58′	94°00′		6.26		
Rosepine Exp. Sta	30°57′	93°17′		12.78		
Rutson-La. Tech University	32°31′	92°37′		10.50		
Sailes Fire Tower	32°22′	93°08′		5.41		
Saint Joseph Exp. Sta	31°57′	91°14′		4.82		
Shreveport WSO AP	32°28′	93°49′		3.17		
Simmesport	30°59′	91°49′		8.29		
Spearsville Fire Tower	32°54′	92°34′		5.41		
Springhill	33°00′	93°27′		3.24		
Sterlington	32°43′	92°05′		9.61		
Stevenson Fire Tower	32°54′	91°58′		12.37		
Sulphur	30°14′	93°23′		11.41		
Fallulah	32°24′	91°13′		5.72		
Verda Fire Tower	31°40′	92°44′		14.33		
Vidalia 2	31°35′	91° 2 6′		6.26		
Winnfield 2 W	31°56′	92°41′	3.18	17.00		
Winnsboro	32°09′	91°42′		7.78		
Winona Fire Tower	32°02′	92°39′		16.28		
Woodsworth	31°07′	92°28′		12.47		
		ISSIPPI	Dec. 1-5	Dec. 24–29		
A bondoon						
Aberdeen	33° 5 0′	88°33′	6.37	3.37		
Ackerman	33°18′	89°10′	8.67	6.86		
Arkabutla Dam	34°45′	90°08′	5.26	5.56		
Ashland 2 SW	34°49′	89°12′	4.66	7.44		
Baldwyn	34°31′	88°38′	3.79	11.10		
Batesville 2 SW	34°18′	89°59′	6.83	7.43		
Bay St. Louis NASA	30°22′	89°35′	5.53	.85		
Bay Springs 2 NNW	32°00′	89°18′	6.69	1.28		
Belmont	34°30′	88°12′	3.63	4.90		
Belzoni	33°12′	90°29′	7.24	7.25		
Black Hawk	33°20′	90°01′	7.12	8.39		
Bluff Lake	33°17′	88°48′	5.57	1.67		

Table 1. Cumulative rainfall at selected stations in the study area for selected storms of December 1982—Continued

Station	Latitude	Longitude	Cumulative rainfall (inches)			
	MISSISSIPI	PI—Continued	Dec. 1-5	Dec. 24-2		
Booneville	34°40′	88°34′	3.36	11.83		
Brookhaven City	31°33′	90°27′	8.88	5.86		
Brooksville Exp. Sta	33°15′	88°34′	3.92	.77		
Bruce 2 W	34°00′	89°22′	4.99	10.72		
Buckatunna	31°32′	88°32′	2.53	1.53		
Byhalia 2 S	34°50′	89°42′	5.54	6.42		
Calhoun City 2 NW	33°55′	89°20′	3.84	9.35		
Canton	32°36′	90°02′	7.50	6.90		
Carrollton	33°30′	89°56′	6.70	12.40		
Carthage 4 SE	32°42′	89°28′	7.50	3.23		
Centreville 3 ESE	31°04′	91°01′	8.80	5.38		
Charleston	34°01′	90°03′	7.11	10.07		
Clarksdale	34°12′	90°34′	5.23	6.77		
Cleveland	33°44′	90°44′	6.70	8.48		
Coffeeville	33°59′	89°40′	6.07	10.55		
Collins	31°38′	89°34′	8.37	1.08		
Collins ville 7 SE	31 36 32°25′	89°46	7.01	.80		
Columbia	32 25 31°15′	89°50′	7.58	.93		
Columbus Luxapallila	33°31′	88°24′	2.82	.89		
Corinth 5 WSW	34°55′	88°36′	2.58	7.20		
	34°35′ 32°05′	88°29′	3.58	1.12		
Crandall 12 N	32 03 33°17′	88°42′	4.85	1.03		
Crawford 5 W		86 42 90°19′	6.10	8.34		
Crystal Springs 4 NNE	32°02′					
Dancy	33°40′	89°03′	6.07	6.91		
D'Lo 2 SW	31°57′	89°56′	6.50	3.65		
Edinburg	32°48′	89°20′	4.90	3.70		
Elliott 1 SW	33°41′	89°46′	6.61	10.99		
Enid Dam	34°09′	89°55′	6.14	8.08		
Enterprise	32°11′	88°49′	5.88	.78		
Eupora 2 E	33°33′	89°14′	5.97	7.08		
Forest 3 S	32°19′	89°29′	6.97	2.97		
Fulton 3 W	34°16′	88°27′	5.13	7.22		
Gholson 8 W	32°55′	88°52′	6.72	1.25		
Goshen Springs 2 NNE	32°30′	89°54′	6.83	6.85		
Greenwood FAA AP	33°30′	90°05′	5.29	7.35		
Grenada	33°47′	89°49′	7.05	9.90		
Gulfport Naval Center	30°23′	89°08′	6.09	.93		
Guntown	34°27′	88°40′	4.47	10.76		
lattiesburg	31°18′	89°17′	4.27	1.23		
Hernando	34°50′	90°00′	4.88	5.81		
lickory Flat	34°37′	89°11′	4.05	8.48		
Holly Springs 4 N	34°49′	89°26′	5.28	7.28		
Houston 2 NE	33°55′	88°58′	5.99	11.02		
ndependence 3 N	34°44′	89°48′	4.61	6.39		
uka	34°49′	88°11′	4.51	10.05		
ackson WSFO AP	32°19′	90°05′	7.94	6.02		
Cipling	32°41′	88°38′	4.75	.87		
Kosciusko	33°04′	89°36′	9.20	6.00		
Lafayette Springs	34°19′	89°16′	4.37	7.83		
Lambert 5 E	34°11′	90°12′	4.74	7.16		
Laurel	31°41′	89°07′	4.92	1.26		
Leakesville	31°10′	88°33′	3.96	1.44		
Lexington 2 NNW	33°08′	90°04′	5.13	6.51		
Liberty 5 W	31°10′	90°53′	7.10	2.46		
Louisville	33°08′	89°04′	6.47	3.22		

Table 1. Cumulative rainfall at selected stations in the study area for selected storms of December 1982—Continued

Station	Latitude	Longitude	Cumulative	rainfall (inches)
	MISSISSIP	PI—Continued	Dec. 1-5	Dec. 24-29
McComb FAA AP	31°14′	90°28′	7.25	3.01
Meadville	31°28′	90°53′	7.10	5.36
Meridian WSO AP	32°20′	88°45′	5.11	.90
Merrill	30°59′	88°43′	4.12	1,40
Minter City	33°45′	90°18′	7.42	10.81
Mize	31°51′	89°33′	5.57	3.65
Monticello	31°33′	90°06′	9.19	3.09
Moorhead	33°27′	90°31′	7.68	11.28
Mount Pleasant	34°57′	89°31′	6.20	6.12
Natchez	31°33′	91°23′	8.12	6.25
New Albany	34°28′	89°00′	3.21	9.44
	34°20′	89°05′	4.61	1.75
Newton Exp. Sta	32°20′ 33°02′			1.73 9.47
Nitta Yuma	33 02 32°12′	90°51′	6.27	
Oakley Exp. Sta		90°31′	5.57	4.27
Ofahoma	32°43′	89°42′	7.49 5.70	6.82
Okolona	34°00′	88°45′	5.79	10.54
Onward	32°43′	90°56′	8.72	8.86
Pascagoula 2 ENE	30°23′	88°30′	3.33	.50
Paulding	32°02′	89°02′	6.27	.44
Pelahatchie	32°19′	89°48′	6.74	4.00
Philadelphia 1 WSW	32°46′	89°08′	6.73	2.58
Picayune	30°31′	89°42′	4.83	.89
Pickens	32°53′	89°59′	6.53	5.85
Pleasant Hill	34°54′	89°54′	4.93	5.82
Pontotoc 5 E	34°16′	88°55′	4.29	9.56
Pontotoc Exp. Sta	34°09′	89°00′	4.12	10.37
Oplarville Exp. Sta	30°51′	89°33′	3.51	1.30
Port Gibson 1 NW	31°58′	91°00′	6.19	4.55
Prentiss 1 N	31°37′	89°52′	5.27	4.59
Purvis	31°09′	89°24′	4.33	1.24
Quitman 1 N	32°04′	88°43′	4.05	1.78
Richton 3 SSE	31°18′	88°54′	5.77	1.41
Ripley	34°44′	88°57′	3.23	9.26
Rockport	31°48′	90°09′	8.31	3.95
Rolling Fork	32°54′	90°53′	2.97	1.22
Russell 2 WNW	32°25′	88°37′	5.13	.77
Sarah 3 SE	34°32′	90°11′	4.54	6.57
Sardis Dam	34°24′	89°48′	5.43	6.69
Saucier Exp. Forest	30°38′	89°03′	4.60	.98
Senatobia	34°38′	89°58′	5.26	6.45
hubuta	31°52′	88°42′	2.68	1.26
Shuqualak	32°59′	88°34′	5.17	1.05
Sledge 2 N	34°27′	90°13′	4.20	7.71
tandard	30°32′	89°22′	6.55	.05
tate University	33°28′	88°48′	7.61	2.39
Stoneville Exp. Sta	33°26′	90°55′	7.76	7.66
Sumrall	31°25′	89°32′	7.02	1.43
Swan Lake	33°53′	90°17′	5.52	9.05
Tibbee	33°32′	88°39′	3.80	1.16
Tupelo 2 WNW	34°16′	88°44′	5.23	11.01
Sylertown 2 WNW	31°07′	90°11′	3.23 7.40	1.48
		90 11 89°07′	7.40 .49	
Union	32°35′			.00 5.76
	31°40′	90°47′	6.85	5.76
University	34°23′	89°32′	5.07	11.41
Vaiden 1 SSW	33°19′	89°45′	7.55	10.03
Vance 1 SE	34°04′	90°22′	7.09	7.40

Table 1. Cumulative rainfall at selected stations in the study area for selected storms of December 1982—Continued

llative rainfall (inches)
Dec. 24-29
0.87
11.32
3.67
4.67
9.86
.74
2.22
.96
9.01
7.92
7.50
Dec. 25-28
4.88
5.81
5.82
3.96

^aCumulative rainfall for December 23–28, 1982.

^bCumulative rainfall for December 1–6, 1982.

Table 2. Precipitation totals and recurrence intervals for storm of December 2–5, 1982, at selected sites in Missouri [RI, recurrence interval; (>), greater than; (<), less than; from: Waite and Alexander, 1987]

National Weather Service	Latitude	Longitude		r duration 2–3, 1982	,	duration 2–4, 1982	4-day duration Dec. 2–5, 1982		
station name			(inches)	RI (years)	(inches)	RI (years)	(inches)	RI (years)	
Farmington	37°42′	90°23′	6.6	55	6.8	15	7.2	10	
Mountain Grove 2N	37°09′	92°16′	7.1	50	9.5	100	10.9	60	
Salem	37°38′	91°32′	5.5	15	6.3	10	7.3	10	
Vienna 2WNW	38°12′	91°59′	7.82	>100	8.63	75	9.97	50	
Wappapello Dam	36°56′	90°17′	3.4	<5	3.8	<5	4.0	<5	
Washington 2 38°22′ 91°00′		91°00′	6.2	40	6.5	20	6.9	10	

Table 3. Summary of peak stages and discharges at 491 streamflow gaging sites in the study area [mi², square mile; ft³/s, cubic feet per second]

				Datum of					lood data	Flood of F	December 19	82
Site	Permanent station	Stream name and	Drainage area	gage above	Period of	Previous 1	flood of re	ecord	Janua		oril 1983, or I	
no.	number	location	(mi ²)	NGVD of 1929 (feet)	record	Date	Gage height (feet)	Discharge (ft ³ /s)	Date	Gage height (feet)	Discharge (ft ³ /s)	Recurrence interval (years)
					OBILE RIV	ER BASIN						
	02429900	Big Brown Creek near	27.1	326.56	1951-	Apr. 17, 1970	a99.97	3,900	Dec. 26	^b 20.29	2,550	c<2
l	02423300	Booneville, Miss.	27.1	320.30	1731-	Арг. 17, 1970	22.21	3,300	Apr. 5	20.29	2,330	c<2
		Boone vine, ivilia.							May 19	20.73	2,650	c<2
2	02429949	Little Brown Creek near	42.1	312.64	1974	Mar. 13, 1975	13.86	4,240	Dec. 4	11.78	1,280	d<2
•	02427747	New Site, Miss.	72.1	312.04	1717	Mar. 20, 1980	13.77	4,600	Dec. 26	14.14	5,450	d<6
		New Dite, Miss.				Wai. 20, 1700	13.77	4,000	Apr. 6	13.65	3,750	d<3
									May 19	14.65	8,390	d ₂₀
3	02429980	Pollard Mill Branch near	2.01	^c 440	1967-	Mar. 16, 1973	5.65	445	Dec. 3	4.01	189	c<2
	02 (2)	Paden, Miss.	2.01	,,,	1707		5.05		Dec. 26	5.71	456	c ₄
		1 44011, 111100.							Apr. 5	4.30	229	c<2
									May 19	6.07	324	^c 6
ı	02430085	Red Bud Creek near	15.7	360.36	1976–	Mar. 4, 1977	11.16	986	Dec. 4	10.94	865	d<2
.'		Moores Mill, Miss.		0.000					Dec. 26	11.30	1,070	$^{d}<2$
									Apr. 5	11.40	1,130	d < 2
									May 19	11.83	1,430	d<2
5	02430680	Twentymile Creek near	131	280.00	1983-				Dec. 4	22.68	11,500	
		Guntown, Miss.							Apr. 5	27.20	18,400	
									May 19	28.86	32,400	
ó	02430880	Cummings Creek near	19.1	^e 295	1976–77,	Aug. 11, 1982	10.89	1,120	Dec. 4	10.82	946	$^{\rm d}<2$
		Fulton, Miss.			1981-			-,	Dec. 26	10.91	1,180	$^{\rm d}$ <2
									Apr. 5	11.03	1,570	$^{d}<2$
									May 19	10.93	1,240	$^{d}<2$
7	02431000	Tombigbee River near	612	242.93	1929-	Mar. 22, 1955	25.75	82,200	Dec. 5	17.93	10,600	c<2
		Fulton, Miss.				_,		,	Dec. 27	23.70	59,400	c ₅₀
									Apr. 6	20.43	30,600	c ₆
									May 20	23.00	53,100	c35
3	02432500	Bull Mountain Creek at	136	317.39	1941-64,	March 1973	^ь 13.1		Dec. 5	6.58		
		Tremont, Miss.			1973-				Dec. 26	8.41		
									Apr. 6	14.06		
									May 20	8.13		
)	02433000	Bull Mountain Creek	336	234.81	1927,	Mar. 16, 1973	18.26	44,400	Dec. 6	10.72	3,900	c<2
		near Smithville,			1941-				Dec. 27	13.65	13,200	c ₂
		Miss.							Apr. 6	16.70	31,800	c10
									May 20	13.06	11,100	c<2
0	02433500	Tombigbee River at	1,226	190.00	1927,	Mar. 17, 1973	27.43	112,000	Dec. 28	25.73	80,100	^c 20
		Bigbee, Miss.			1938-42,				Apr. 7	23.64	60,600	c9
					1944, 1946–55, 1957–58, 1962, 1964–				May 21	24.60	68,400	^c 10
1	02434000	Town Creek at Tupelo,	111	244.44	1950-	Mar. 21, 1955	27.72	23,000	Dec. 26	24.06		
		Miss.							Apr. 5	23.37		
									May 19	25.66	¹ 18,500	
2	02435020	Town Creek at Eason	233	230.00	1971-	May 7, 1978	27.08	22,600	Dec. 4	25.31	12,100	<2
		Blvd. at Tupelo,							Dec. 26	27.32	25,700	15
		Miss.										
									Apr. 6	25.94	18,100	3
	00.10.000						40	** ***	May 19	27.39	26,100	15
3	02435800	Coonewah Creek at	53.1	229.67	1939,	Apr. 11, 1962	19.57	22,400	Dec. 4	16.48		
		Shannon, Miss.			1953–				Dec. 26	17.48		
									Apr. 5	15.43		
	02425020	Chall Carabass	20		1055	T 4 1057	7.53	275	May 19	15.93		C - 2
4	02435930	Shell Creek near	.20		1955-	June 4, 1957	7.53	275	Dec. 25	4.02	58	c<2
		Tupelo, Miss.							Apr. 5	4.06	60 50	°2
-	02426000	Chimpe Carle	1 45	206.06	1050	Mar. 01, 1065	15 70	25 500	May 18	4.02	58 15 700	°<2
.5	02436000	Chiwapa Creek at	145	226.96	1950–	Mar. 21, 1955	15.72	35,500	Dec. 4	11.83	15,700	^c 4
		Shannon, Miss.				Apr. 11, 1962	15.90	32,400	Dec. 26	b13.84	20,700	°8
۷	02426500	T-ma (1 11	600	104.01	1007	Man 00 1055	22.00	151 000	May 19	13.2	18,900	°6
.6	02436500	Town Creek near Nettle- ton, Miss.	620	194.01	1927,	Mar. 22, 1955	33.88	151,000	Dec. 4	29.17	37,300	^c 4
		ton, miss.			1940				Dec. 26	^b 32.14	68,000	c ₁₅
									Apr. 6 May 19	^f 28.9 28.82	35,200 34,600	°3 °3

Table 3. Summary of peak stages and discharges at 491 streamflow gaging sites in the study area—Continued

				5					Flood data	E1 . 2 =		
Site	Permanent station	Stream name and	Drainage area	Datum of gage above	Period of	Previous	flood of re	ecord	Janua	ry 1983, Ap	December 198 oril 1983, or N	lay 1983
no.	number	location	(mi ²)	NGVD of 1929 (feet)	record	Date	Gage height (feet)	Discharge (ft ³ /s)	Date	Gage height (feet)	Discharge (ft ³ /s)	Recurrent interval (years)
				MOBIL	E RIVER B	ASIN—Continue	d					
17	02437000	Tombigbee River near	1,928	178.34	1892,	Mar. 17, 1973	34.65	162,000	Dec. 5	27.08	33,100	c<2
	02.0,000	Amory, Miss.	1,520	1,0.5	1927,	11202. 11, 19,5	5 1105	102,000	Dec. 28	33.15	125,000	c30
		• •			1938–				Apr. 7	30.50	71,800	c ₇
					1,000				May 21	31.81	95,900	e ₁₅
18	02437300	Mattubby Creek near	92.2		1937,	January 1937	96.4	g _{15,500}	Dec. 26	93.99	11,900	c10
10	02 137300	Aberdeen, Miss.	72.2		1952-	Feb. 21, 1961	95.12	13,200	Apr. 6	92.89	8,460	c ₃
		110010001, 100000			1952-	100. 21, 1901	95.12	13,200	May 19	93.63	10,800	¢6
19	02437500	Tombigbee River at	2,171	154.71	1892,	Mar. 18, 1973	45.02	123,000	Dec. 29	^b 35.60	102,000	^c 35
19	02437300	Aberdeen, Miss.	2,1/1	154.71	1909-	Mai. 10, 1973	45.02	123,000	Apr. 8	28.96	70,000	c ₁₀
		riocracen, raiss.			1909-				-	29.86	75,000	c ₁₅
20	02437550	Nichols Creek trib. near	5.1		1067	Man 16 1072	7.02	220	May 22			c<2
20	02437330	Quincy, Miss.	.54		1967–	Mar. 16, 1973	7.03	338	Dec. 25	4.50	74	^c 7
21	02427600	- •	20.4	e	10.0	16 16 1000	15.50	4.540	Apr. 5	6.64	300	
21	02437600	James Creek at	28.4	^e 190	1948,	Mar. 16, 1973	15.70	4,540	Dec. 26	14.51	5,760	20
		Aberdeen, Miss.			1961,	Jan. 3, 1982	14.10	5,090	Apr. 5	14.68	6,040	25
					1963-				May 19	14.64	5,970	20
22	02439400	Buttahatchee River near	798	220.77	1892,	Mar. 17, 1973	23.48	80,000	Dec. 8	13.95	5,540	<2
		Aberdeen Miss.			1893,				Dec. 29	14.20	6,030	<2
					1951,				Apr. 7	18.59	22,500	4
					1962,				May 20	19.37	35,700	9
					1967-							
23	02440000	Chuquatonchee Creek	167	221.07	1950-	Mar. 16, 1973	16.61	36,300	Dec. 4	14.32	15,300	^c 4
		near Egypt, Miss.							Dec. 26	15.66	26,900	^c 15
24	02440020	Chuquatonchee Creek trib. near Trebloc,	.72		1966–	Feb. 21, 1971	9.18	540	Dec. 25	6.87	250	c<2
25	02440400	Miss. Houlka Creek near McCondy, Miss.	189	^e 225	1963–	Mar. 16, 1973	18.65	40,000	Dec. 26	15.50	13,500	c ₃
26	02440500	Chuquatonchee Creek	505	170.10	1941–46,	Mar. 17, 1973	24.58	57,100	Dec. 5	19.13	17,000	c<2
20	02110500	near West Point,	505	170.10	1948–	Mai. 17, 1975	24.50	57,100	Dec. 27	f ₂₂	34,000	c ₇
		Miss.			1940-				Apr. 8	18.36	13,900	c<2
27	02440600	Line Creek near Maben,	4.76	283.46	1952–	Mar. 4, 1977	23.37	4,230	Dec. 26	20.67	1,820	2
21	02440000	Miss.	4.70	265.40	1932-	Mai. 4, 1977	23.31	4,230		25.67	4,640	15
28	02440800	Trim Cane Creek near	44.9	214.24	1040	A 12 1070	27.05	0.600	May 19			^c 4
20	02440800	Starkville, Miss.	44.9	214.24	1940,	Apr. 13, 1979	27.95	9,600	Dec. 4	25.91	5,560	c ₂
		Starkville, Miss.			1952–				Dec. 26	24.41	4,620	_
20	00441000	T	001					04.600	May 19	28.10	9,980	°50
29	02441000	Tibbee Creek near	926	154.07	1927,	Apr. 17, 1973	32.26	81,600	Dec. 5	27.84	36,300	^c 2
		Tibbee, Miss.			1929-30,				Dec. 28	30.02	55,600	°6
					1940-				Apr. 7	26.42	26,500	c<2
									May 20	28.66	42,900	c ₃
30	02441220	Sand Creek trib. near	.44		1966-	Apr. 2, 1977	8.10	366	Dec. 4	6.42	230	°6
		Mayhew, Miss.							May 19	6.81	263	^c 10
31	02441300	Catalpa Creek at May-	98	173.02	1963-	Apr. 13, 1979	21.52	19,800	Dec. 4	19.49	13,800	7
		hew, Miss.							May 19	19.49	13,800	7
32	02441390	Tombigbee River at	4,440	.00	1982-	Jan. 6, 1982	161.77	60,800	Dec. 6	162.18	62,400	c ₃
		Columbus Lock and							Dec. 29	170.55	131,000	^c 20
		Dam, near Columbus,							Apr. 9	169.76	119,000	^c 15
		Miss.							May 22	170.83	136,000	^c 20
33	02441500	Tombigbee River at	4,463	128.91	1892-	Apr. 8, 1892	f ₄₄	g268,000	Dec. 6	28.42		
		Columbus, Miss.				Mar. 19, 1973	42.22	194,000	Dec. 30	36.90		
									Apr. 9	36.36		
									May 22	37.70		
34	02443000	Luxapallila Creek at	309	177.13	1940-	Jan. 6, 1949	19.2	16,000	Apr. 8	15.02	4,210	c<2
		Steens, Miss.				•			May 20	17.47	8,260	c ₃
35	02443500	Luxapallila Creek near	715	142.23	1892,	April 1892	35.3		Dec. 6	18.37	6,240	<2
		Columbus, Miss.			1929–30,	January 1949	32.8		Dec. 29	18.68	6,540	<2
					1949.	Apr. 14, 1979	32.35	40,400	Apr. 8	22.72	11,100	<2
					1962, 1975	1411 11, 1515	02.02	,	May 21	27.82	23,500	7
36	02443700	Cedar Creek near	.49	236.89	1965-	Apr. 12, 1979	7.60	458	Dec. 4	5.54	120	c<2
		Brooksville, Miss.	,				,,00	120	May 19	6.93	350	c ₁₅
37	02447220	Bogue Fallah Creek trib.	.34		1966-	Apr. 12, 1979	9.17	472	Dec. 4	6.04	202	c ₁₅
•		near Ackerman,	.54	_	*>00-	pr. 12, 17/7	2.11	712	Dec. 4 Dec. 25	5.00	130	c ₃
		Miss.										c ₂₀
		MISS.							Apr. 23	6.30	220	^c 2

Table 3. Summary of peak stages and discharges at 491 streamflow gaging sites in the study area—Continued

									Floori data			
	Permanent	Stream	Drainage	Datum of	Period	Previous	flood of re		Flood data		ecember 198	
Site no.	station	name and	area	gage above NGVD of	of	rievious			Janu		ril 1983, or N	
no.	number	location	(mi ²)	1929 (feet)	record	Date	Gage height (feet)	Discharge (ft ³ /s)	Date	Gage height (feet)	Discharge (ft ³ /s)	Recurrence interval (years)
				MOBIL	E RIVER B	BASIN—Continue	:d					
38	02448000	Noxubee River at	768	142.38	1892,	Apr. 13, 1979	a38.97	125,000	Dec. 6	30.23	19,900	^c 4
		Macon, Miss.			1927,	•			Dec. 31	25.55	6,180	c<2
					1929-32,				Apr. 8	29.57	16,500	c ₃
					1939				May 20	32.65	38,000	^c 20
39	02448620	Flat Scooba Creek trib.	.44		1967-	Apr. 12,1979	8.87	427	Apr. 6	5.62	156	^c 4
		near Scooba, Miss.		PAS	CAGOULA	RIVER BASIN			May 19	6.18	197	^c 9
40	02471100	Leaf River near Raleigh,	143	274.94	1940–43,		28.17	17,000	Apr. 7	25.34	9,200	c ₈
70	02471100	Miss.	143	214.54	1957-	ърг. 15, 1574	20.17	17,000	Apr. 7		7,200	Ü
41	02471250	Leaf River at Taylors- ville, Miss.	459	200.00	1961, 1968–	Apr. 14, 1974	57.44	37,600	Apr. 8	⁶ 53.47	17,300	5
42	02471500	Oakohay Creek at Mize, Miss.	185	274.18	1942–49, 1961, 1968–	Apr. 13, 1974	17.26	28,900	Apr. 7	^b 15.62	16,900	40
43	02472000	Leaf River near Collins,	743	197.48	1856,	April 1856	33		Apr. 8	28.11	31,000	c10
-10	02112000	Miss.	, 10	137.10	1900,	Apr. 14, 1974	^b 32.6	54,200	pr. 0	20.11	01,000	10
					1939-			,				
44	02472160	Big Creek trib. near Laurel, Miss.	.17		1966	Apr. 25, 1973	6.34	202	Apr. 6	6.50	211	^c 20
45	02472420	Bowie Creek near San- ford, Miss.	262	190.00	1961, 1968–	February 1961	32.02	g33,200	Apr. 7	^b 30.93	^g 29,000	15
46	02472500	Bowie Creek near Hat-	304	160.04	1900,	April 1900	33.5		Apr. 7	26.06	22,800	^c 20
		tiesburg, Miss.			1939-	Apr. 17, 1974	28.18	45,500				
47	02472810	Okatoma Creek trib. No. 2 near Collins, Miss.	.21		1967–	Oct. 9, 1966	8.57	312	Apr. 6	8.61	314	^c >100
48	02473000	Leaf River at Hatties- burg, Miss.	1,748	118.23	1900, 1905–	Apr. 15, 1974	34.03	121,000	Apr. 9	29.19	59,000	c ₁₅
49	02473038	Gordon Creek at U.S. Highway 11 west of U.S. Highway 49 at Hattiesburg, Miss.	3.82	186.82	1983–				Apr. 6	^g 11.1	^f 4,200	
5 0	02473040	Gordon Creek at State U.S. Highway 11 at Hattiesburg, Miss.	4.53	.00	1972–	May 3, 1978	93.31		Apr. 6	^b 187.0		
51	02473047	Gordon Creek at Broad Street at Hattiesburg, Miss.	8.83	.00	1969–	May 3, 1978	60.48	3,600	Apr. 6	161.89	6,920	>100
52	02473050	Gordon Creek at Pine Street at Hattiesburg, Miss.	9.46	.00	1969–	Apr. 4, 1979	150.83		Apr. 6	^b 155.9		
53	02473480	Tallahattah Creek near Waldrup, Miss.	30.4	265.25	1965–	Apr. 13, 1974	18.14		Apr. 7	14.40	1,230	c<2
54	02473498	Tallahala Creek trib. at 8th Street at Laurel,	1.12	200.00	1974-	Mar. 30, 1976	39.23	821	Apr. 6	36.78	369	<2
		Miss.							May 20	39.15	856	8
55	02473610	Tallahala Creek trib. No. 2	1.52	200.00	1974-	Mar. 30, 1976	32.30	920	Apr. 6	28.35	277	<2
		at Granview Drive at Laurel, Miss.							May 20	30.82	628	3
56	02473850	Tallahoma Creek trib. at Lake Como, Miss.	3.21		1964–	Apr. 6, 1964	12.27	3,120	Dec. 4 Apr. 6	8.15 8.59	860 1,110	°<2 °2
57	02474500	Tallahala Creek near	612	104.58	1900,	April 1900	35.5		Apr. 7	23.03	11,700	c ₄
		Runnelstown, Miss.			1920, 1940-	Feb. 24, 1961	29.84	32,800			,	
58	02474600	Bogue Homo near Richton, Miss.	344	^e 117	1941–43, 1971–	Mar. 21, 1943 Dec. 28, 1973	^h 25.7 ^b 27.63	 21,900	Apr. 8	23.29	12,700	4
59	02474650	Buck Creek near Run-	20.8	54.61	1951-81,	Feb. 18, 1961	21.41	3,900	Apr. 6	^b 16.89	4,800	c15
60	07475000	nelstown, Miss.	2 405	42 15	1983	Apr. 3, 1979	17.93	5,700	A 10	07.24	75 200	C10
60	02475000	Leaf River near McLain, Miss.	3,495	42.15	1900, 1938,	April 1900 Feb. 26, 1961	32 31.64	128,000	Apr. 10	27.34	75,200	^c 10
61	02475050	Waterfall Branch near McLain, Miss.	.65	e ₁₀₀	1940- 1955-	June 1, 1959	11.71	764	Apr. 6	10.73	655	c>100

Table 3. Summary of peak stages and discharges at 491 streamflow gaging sites in the study area—Continued

				_				F	lood data			
Site	Permanent station	Stream name and	Drainage area	Datum of gage above NGVD of	Period of	Previous fl		cord	Janua	ry 1983, Ap	December 198 oril 1983, or N	1ay 1983
110.	number	location	(mi ²)	1929 (feet)	record	Date	Gage height (feet)	Discharge (ft ³ /s)	Date	Gage height (feet)	Discharge (ft ³ /s)	Recurrent interval (years)
				PASCAGO	OULA RIVE	R BASIN—Contin	ued					
52	02475220	Little Rock Creek trib.	0.22		1965-	Apr. 12, 1979	7.79	265	Dec. 4	3.09	26	c<2
		near Little Rock,				-			Apr. 6	5.38	124	^c 10
		Miss.							May 19	5.04	107	°7
53	02477050	Souinlovey Creek near Baxter, Miss.	1.14		1964	Apr. 18, 1973	12.56	1,050	Dec. 4 Apr. 6	6.60 12.06	288 970	°<2 °25
64	02477090	Powers Creek near Rose	.52		1964	Apr. 13, 1969	10.15	589	Dec. 4	5.01	164	c<2
		Hill, Miss.			2701	1		•	Apr. 6	5.28	185	c<2
65	02477330	Shubuta Creek near Shubuta, Miss.	75.5	181.97	1963–	Apr. 25, 1973	24.88	12,700	Apr. 7	19.09	4,230	^c 4
66	02478500	Chickasawhay River at	2,690	51.13	1900,	April 1900	38		Apr. 8	28.08	27,200	^c 4
		Leakesville, Miss.			1916,	Feb. 28, 1961	33.52	73,600				
67	02478600	Granny Branch at Piave,	.69	236.84	1938 1967	Mar. 4, 1979	6.55	402	Apr. 6	5.99	330	c<2
07	02476000	Miss.	.09	230.04	1907-	Mai. 4, 1979	0.33	402	Apr. 0	3.39	330	~2
68	02479000	Pascagoula River at	6,590	26.25	1900,	April 1900	32.5		Apr. 9	26.89	113,000	^c 8
. 0	00470004	Merrill, Miss.	4.00	40	1905-	Feb. 27, 1961	30.66	178,000		0.47	1.600	C- 100
69	02479094	Blown Pine Creek near Hattiesburg, Miss.	1.92	277.70	1955, 1966–77, 1983	Apr. 12, 1955	12.06	2,260	Apr. 6	9.67	1,600	^c >100
70	02479130	Black Creek near Brook-	355	128.14	1961,	Feb. 18, 1961	25.70	21,500	Apr. 7	^c 29.96	42,500	>100
		lyn, Miss.			1971-	Apr. 14, 1974	c25.32	20,500		-,,,,,	1,0	
71	02479138	Walls Creek trib, near Brooklyn, Miss.	.37		1966–77,	Apr. 13, 1974	10.39	490	Apr. 6	8.61	410	^c 90
72	02479155	Cypress Creek near Jan-	52.6	c100	1983 1959,	June 1, 1959	32.06	22,800	Apr. 7	29.51	12,100	15
		ice, Miss.			1967-	Apr. 4, 1979	28.67	12,500			,	
73	02479160	Black Creek near Wig-	701	48.94	1916,	July 1916	30.5		Apr. 8	28.81	43,900	80
		gins, Miss.			1959, 1961, 1972–	Apr. 5, 1979	26.63	31,500				
74	02479187	Red Creek trib. near	.22		1965-	Feb. 11, 1981	8.02	276	Apr. 6	^b 9.54	390	c>100
75	02479300	Wiggins, Miss. Red Creek at Vestry,	441	20.10	1958–	Dec. 12, 1961	18.56	21,500	Apr. 8	^b 21.18	26,800	40
,,	02175500	Miss.	441	20.10	1750-	Feb. 12, 1981	18.94	16,000	ирг. о	21.10	20,000	40
				TCHOU	TACABOUI	FA RIVER BASI	1					
76	02480500	Tuxachanie Creek near	92.4	2.91	1906,	September 1966	23.2		Apr. 8	19.60	7,380	c ₅
		Biloxi, Miss.			1948, 1953–	Sept. 19, 1957	22.22	17,700	•			
					BILOXI RIV	ER BASIN						
77	02481000	Biloxi River at	96.1	19.18	1948,	1948	25.3		Apr. 8	25.30	10,300	40
, ,	02401000	Wortham, Miss.	70.1	17.10	1953-	Sept. 18, 1957	23.08	7,740	Apr. 0	25.50	10,500	40
						Apr. 27, 1964	22.94	8,420				
78	02481130	Biloxi River near	251		1957,	September 1957	21.5		Apr. 8	19.36	18,800	8
		Lyman, Miss.			1965–	Apr. 14, 1980	19.75	22,000				
					WOLF RIV	ER BASIN						
79	02481510	Wolf River near	308	21.34	1920,	1920	28		Apr. 8	21.53	18,400	15
		Landon, Miss.			1964,	Apr. 27, 1964	23.06		•			
					1971–	May 20, 1980	19.83	15,800				
					PEARL RIV	ER BASIN						
80	02481880	Pearl River at Burnside,	520	^e 375	1935,	Apr. 13, 1979	23.31	70,600	Dec. 6	16.27	14,500	^d 4
		Miss.			1938-39,				Dec. 29	13.72	3,590	d < 2
					1962,				Apr. 8	15.63	11,300	d ₃
					1979, 1981-				May 20	19.77	37,800	
81	02482000	Pearl River at Edinburg,	904	341.67	1981– 1878,	Apr. 14, 1979	30.06	77,900	Dec. 7	25.16	18,100	4
	32.52000	Miss.	,,,	5.11.07	1902,	- apr. 1., 17/7	55.00	,,,,,,,,	Apr. 9	24.42	14,400	3
					1909-				May 22	28.35	53,300	100
82	02482100	Indian Branch near	1.91		1966-	Apr. 12, 1979	5.47	710	Dec. 3	4.59	515	6
20	004	Edinburg, Miss.	_		40				May 19	4.76	610	9 505
83	02482310	Lobutcha Creek trib. at Wamba, Miss.	.94		1965	Apr. 12, 1979	12.77	1,240	Dec. 3 May 19	7.42 7.29	525 400	^c 35
		** acrioa, 141155.							1414y 17	1.47	400	13

Table 3. Summary of peak stages and discharges at 491 streamflow gaging sites in the study area—Continued

				Dec. 1				F	lood data	Fla. 1 7 =	Name - 1 - 400	200
Site	Permanent	Stream	Drainage	Datum of gage above	Period	Previous	flood of re	ecord	lanua		December 198 Pril 1983, or <i>l</i>	
no.	station number	name and location	area (mi ²)		of record	Date	Gage height (feet)	Discharge (ft ³ /s)	Date	Gage height (feet)	Discharge (ft ³ /s)	Recurrence interval (years)
				PEARI	RIVER BA	ASIN—Continued						
01	07497550	Boorl Bivon at Conthaga	1 246	215 24	1074	A 14 1070	20 74	102.000	Dea 6	24.24	20.200	0
84	02482550	Pearl River at Carthage, Miss.	1,346	315.24	1874,	Apr. 14, 1979	28.74	102,000	Dec. 6	24.24	30,200	9
		MISS.			1900,				Dec. 29	21.35	13,500	2
					1902,				Apr. 10	22.40	17,200	3
					1932, 1938–39,				May 22	27.07	69,500	>100
					1962–		L:					
85	02483000	Tuscolameta Creek at	411	322.70	1900,	April 1900	^{bi} 34.5		Dec. 5	28.74	18,700	c8
		Walnut Grove, Miss.			1939–	Jan. 7, 1950	¹ 33.00	34,600	Dec. 29	25.55	4,760	c<2
									Apr. 8	27.77	13,700	^c 3
									May 21	29.31	21,800	^c 15
86	02483890	Yockanookany River	.34		1965-	Mar. 28, 1980	6.76	415	Dec. 4	4.88	215	c8
		trib. near McCool, Miss.							May 19	4.93	220	c ₉
87	02484000	Yockanookany River	303	374.34	1933,	Apr. 13, 1979	^b 23.06	40,700	Dec. 5	18,43	16,600	^c 20
		near Kosciusko,			1938-	•			Dec. 27	16.50	10,400	c ₅
		Miss.							Apr. 8	15.96	8,840	c ₃
									May 21	18.48	16,700	^c 20
88	02484500	Yockanookany River	469	311.15	1938-	Apr. 14, 1979	23.27	46,500	Dec. 7	19.09	15,800	c ₃₀
00	02404500	near Ofahoma, Miss.	40)	311.13	1950-	лрг. 14, 1777	25.21	40,500	Dec. 7	18.41	12,700	c ₈
		nom Olmiona, 14155.							Apr. 9	17.67	9,740	c ₄
									May 22			c>100
00	02404600	Coffee Booms at Lord	77	210.76	1071	I 20 1070	14.00	£ 400	•	20.20	21,900	
89	02484600	Coffee Bogue at Lud-	77	310.76	1971–	Jan. 20, 1979	14.89	6,400		15.28	7,680	15
••		low, Miss.							Apr. 7	b15.36	7,900	20
90	02484750	Red Cane Creek trib.	.10		1965	Apr. 12, 1980	6.64	122	Dec. 3	5.65	87	^c 7
		near Pisgah, Miss.							Apr. 6	6.98	134	^c 60
91	02484760	Fannegusha Creek near	52.3	304.53	1971–	Apr. 17, 1973	13.36	7,100	Dec. 4	12.52	6,430	7
		Sand Hill, Miss.				Apr. 12, 1980	13.35	9,000	Apr. 7	^b 12.4	6,090	6
92	02485380	Hollybush Creek trib. no. 1 near Pisgah, Miss.	.59		1965–	Apr. 16, 1973 Nov. 23, 1979	6.46 7.09	335 330	Apr. 6	8.03	470	^c 80
93	02485392	Clear Creek trib. near Pelahatchie, Miss.	.12		1965–	Oct. 5, 1976	6.97	152	Dec. 3	4.81	67	c<2
94	02485700	Hanging Moss Creek at	17.1	261.33	1953	Apr. 29, 1953	¹ 99.6	5,320	Dec. 4	17.75	2,300	c ₃
		Jackson, Miss.				•			Dec. 25	18.04	2,420	c ₃
									Apr. 6	19.97	3,460	c ₉
95	02485800	Eubanks Creek at Jack-	^j 5.19	262.02	1953	Apr. 29, 1953	k _{12.20}	k _{4,200}	Dec. 3	10.34	1,730	<2
		son, Miss.				July 8, 1963	14.20	3,100	Dec. 25	11.28	2,090	<2
						May 19, 1966	15.15	2,590	Apr. 6	11.16	2,040	<2
96	02485900	Neely Creek near Bran-	1.09		1965	Apr. 10, 1979	8.85	1,050	Dec. 3	7.59	800	c>100
		don, Miss.						-,	Apr. 6	7.72	820	c>100
									Apr. 13	9.50	1,180	c>100
97	02485950	Town Creek at Jackson,	11.4	262.72	1885,	1921	^f 19		Dec. 3	7.43	1,990	<2
		Miss.			1914,	Apr. 29, 1953	^b 16.2	4,200	Apr. 6	8.76	2,540	<2
					1921, 1953–	141, 23, 1300	10.2	1,200	Apr. 14	12.90	4,480	20
98	02486000	Pearl River at Jackson, Miss.	3,171	233.70	1874,	Apr. 17, 1979 May 25	43.28 39.58	^m 128,000 ⁿ 79,500	Dec. 6	36.08	ⁿ 47,200	6
99	02486100	Lynch Creek at Jackson,	12	259.94	1953-	Apr. 29, 1953	b _{18.9}	77,500	Dec. 4	11.26	2,100	<2
,,	02400100	Miss.	12	237.77	1/33-	June 16, 1958	b _{18.05}	6,600	Apr. 6	14.90	3,500	<2
						June 10, 1750	10.03	0,000	Apr. 13	17.86	5,390	7
100	02487300	Strong River near Puck-	248	294.97	1950,	Innuary 1050	27.06		Apr. 13 Dec. 5	26.38	18,200	°20
100	02407300	ett, Miss.	240	∠74.7 <i>1</i>	1950, 1955–	January 1950 Apr. 13, 1974	26.78	18,000	Dec. 3 Dec. 27		3,420	c<2
		·			1733-	лрг. 13, 1974	20.78	10,000		20.35		°20
									Apr. 7	26.47	18,600	°7
101	02497500	Ctrong Disser at D1 .	425	252.00	1000	1000	22		May 22	24.88	11,500	°10
101	02487500	Strong River at D'Lo, Miss.	425	257.99	1900,	1900	33	24.800	Dec. 6	30.29	16,800	c<2
		141122.			1929–38,	Jan. 7, 1950	33.00	24,800	Dec. 28	19.78	5,500	
					1939-				Apr. 7	33.48	26,400	^c 50
102	00/07/77	.		6				=	May 23	28.37	12,300	°5
102	02487670	Boggans ditch near	.94	^e 450	1955	Apr. 12, 1955	8.16	764		4.14	161	°<2
103	02487770	Mendenhall, Miss. Bradleys ditch near	1.29	^e 290	1955-77,	Apr. 12, 1955	8.15	516	Apr. 6 Apr. 6	8.09 7.29	747 390	c>100 c60
104	02487900	Pinola, Miss. Copiah Creek near	47.4	283.42	1983 1948–	Apr. 12, 1980	b25.11	32,000	Apr. 6	^b 22.87	16,500	
		Hazlehurst, Miss.				- '		•	-			

Table 3. Summary of peak stages and discharges at 491 streamflow gaging sites in the study area—Continued

				De: '					lood data	FI= 1 2=		
Site	Permanent station	Stream name and	Drainage area	Datum of gage above	Period of	Previous	flood of re	ecord	Janua		December 198 oril 1983, or N	
no.	number	location	(mi ²)	NGVD of 1929 (feet)	record	Date	Gage height (feet)	Discharge (ft ³ /s)	Date	Gage height (feet)	Discharge (ft ³ /s)	Recurrence interval (years)
				PEARI	RIVER BA	ASIN—Continued					_	
105	02488340	Small Pine ditch near	0.16		1955–77.	Mar. 24, 1973	8.24	281	Dec. 3	6.46	169	c ₇
		Monticello, Miss.			1980–	- .,			Apr. 6	6.52	172	c ₈
									May 21	6.14	151	c ₅
106	02488500	Pearl River near Monti-	4,993	158.66	1874,	1874	34.5		Dec. 10	27.21	51,800	6
		cello, Miss.			1900,	Apr. 20, 1979	34.08	122,000	Jan. 2	25.98	43,400	3
					1902,	•			Apr. 9	30.53	80,100	35
					1924-				May 29	29.86	73,700	25
107	02488510	Roadside Park ditch near Monticello, Miss.	.25		1955–77 1983	Apr. 12, 1974	7.06	289	Apr. 6	7.04	286	c80
108	02488540	New Hebron Gulley at	2.50		1957,	Apr. 12, 1974	17.05	2,650	Apr. 6	^b 9.63	1,300	^c 8
		New Hebron, Miss.			1965–77, 1983	•		·	•			
109	02488550	Goines Draw near Prent-	.34		1955-	Apr. 12, 1974	9.10	610	Dec. 3	2.62	86	c<2
		iss, Miss.							Apr. 6	4.79	230	^c 10
110	02488680	Plum ditch near Prent- iss, Miss.	.23		1955–76, 1983	Apr. 12, 1955	7.18	211	Apr. 6	^b 9.01	333	c>100
111	02488700	Whitesand Creek near	130	182.20	1900,	April 1900	20.5		Apr. 7	17.42	18,300	20
	02100700	Oak Vale, Miss.	100	102.20	1925,	Apr. 13, 1974	18.76	25,400		17.72	10,000	20
					1961, 1966-	1201 10, 1711	10,70	25,100				
112	02489000	Pearl River near Colum-	5,720	115.81	1874,	1874	f31		Apr. 8	26.20		
		bia, Miss.			1880, 1900,	Apr. 22, 1979	27.80	120,000	May 30	24.53		
					1905-					ь.		
113	02489030	Elmers Draw near Columbia, Miss.	.91		1955–	Apr. 12, 1955	13.33	1,150	Dec. 3 Apr. 6	^b 7.5 ^b 16.22	394 1,620	^c 2 ^c >100
114	02489160	Kokomo Draw at	1.26		1955–77	Apr. 12, 1955	9.63	1,320	Apr. 6	b _{12.86}	p _{2,040}	c>100
115	02489500	Kokomo, Miss. Pearl River near Boga-	6,573	55.00	1983 1938,	Apr. 24, 1979	23.23	129,000	Apr. 8	22.78	114,000	50
	02400105	lusa, La.	70.7	76.60	1939-	N. 14 1061	12.0			b. 2.00	0.250	20
116	02490105	Bogue Lusa Creek at Bogalusa, La.	72.7	76.60	1961,	Nov. 14, 1961	13.0	7.100	Apr. 7	^b 13.80	9,350	20
117	02400500	•	400	227.40	1964-	Apr. 18, 1973	11.86	7,100 ——	Dec. 5	22.02	10.000	c ₃
11/	02490500	Bogue Chitto near Tylertown, Miss.	492	227.40	1936, 1945–	February 1936 Jan. 7, 1950	⁴ 34.7 33.50	45,700	Dec. 3	23.92 15.17	19,000 6,530	°<2
		i jienown, miss.			1943-	Jan. 7, 1930	33.30	43,700	Apr. 7	34.62	64,200	c>100
118	02490550	Middle Fork Hickory	1.46		1953-	Aug. 22, 1953	13,95	2,300	Dec. 3	7.17	890	c ₁₅
110	02770330	Flat near Tylertown, Miss.	1.40		1,55	114g. 22, 1755	10.95	2,500	Apr. 6	^a 13.30	1,060	c30
119	02491200	Silver Springs Creek near Clifton, La.	50.1		1966-83	Mar. 29, 1980	10.00	7,100	Apr. 7	^b 12.03	12,200	20
120	02491350	Hays Creek near Frank- linton, La.	42.2	147.50	1966-	Mar. 24, 1973	14.69	6,700	Apr. 7	17.06	10,600	20
121	02491500	Bogue Chitto at Frank-	990	123.81	1900,	April 1900	29.6		Apr. 7	24.69	125,000	>100
		linton, La.			1928–31, 1938–57,	Mar. 30, 1980	^r 20.55	56,700	•		•	
122	02491700	Lawrence Creek near Franklinton, La.	44.2		1976– 1964–83	Mar. 24, 1973	14.30	12,600	Apr. 7	15.32	15,800	40
123	02491800	Bogue Chitto at Enon, La.	1,107	.00	1949–63, 1973–	Apr. 22, 1977	111.68		Apr. 8	124.80		
124	02492000	Bogue Chitto near Bush, La,	1,213	44.25	1937-	Mar. 31, 1980	17.31	57,400	Apr. 8	21.22	131,700	>100
125	02492360	West Hobolochitto	175	55.64	1961,	Dec. 10, 1961	^b 24.96		Apr. 7	23.25	^b 18,000	20
		Creek near McNeill, Miss.			1966-	Apr. 4, 1979	22.58	14,600				
126	02492600	Pearl River at Pearl River, La.	8,494	05	1874, 1964-70, 1976-	1874 Apr. 1, 1980	20.2 b _{19.75}	 167,900	Apr. 9	21.05	230,000	>100
				TEN	NESSEE R	IVER BASIN						
127	03592718	Little Yellow Creek East	24.7	429.51	1974-	May 8, 1978	19.19	3,310	Dec. 4	18.07	1,280	$^{d}<2$
		near Burnsville,				•			Dec. 26	21.74		
												d ₈

Table 3. Summary of peak stages and discharges at 491 streamflow gaging sites in the study area—Continued

								F	lood data			
Site	Permanent station	Stream name and	Drainage area	Datum of gage above	Period	Previous	flood of re	cord	Janua		December 19 oril 1983, or	
no.	number	location	(mi ²)	NGVD of 1929 (feet)	of record	Date	Gage height (feet)	Discharge (ft ³ /s)	Date	Gage height (feet)	Discharge (ft ³ /s)	Recurrence interval (years)
					CACHE RIV	ER BASIN						<u> </u>
128	03612000	Cache River at Forman,	244	318.47	1922-	Mar. 12, 1935	s _{17.99}	9,360	Dec. 6	24.99	6,490	6
		Ш.							Dec. 27	25.89	7,020	7
					ROCK RIV	ER BASIN						
129	05446500	Rock River near Joslin, Ill.	9,549	564.06	1939–	Mar. 22, 1948 Mar. 22, 1979	14.46 17.81	46,200 ——	Dec. 7	14.09	25,500	3
				E	DWARDS R	IVER BASIN						
130	05466500	Edwards River near	445	529.92	1934	Apr. 22, 1973	23.33	18,000	Dec. 5	21.38	5,440	4
		New Boston, Ill.			POPE CREE	EK BASIN						
131	05467000	Pope Creek at Keiths-	174	524.07	1934	Apr. 22, 1973	27.88	8,900	Dec. 3	26.94	3,680	5
		burg, Ill.				July 7, 1982	28.36	<u>-</u> -			,	
				HE	NDERSON C	CREEK BASIN						
132	05469000	Henderson Creek near	432	541.21	1934–	July 8, 1982	31.05	34,600	Dec. 3	25.57	4,520	<2
		Oquawka, Ill.			BEAR CRE	EK BASIN						
133	05495500	Bear Creek near Marcel-	349	504.52	1944_	July 22, 1951	26.07	21,200	Dec. 3	23.00	17,500	9
		line, Ill.				•			Dec. 25	15.86	8,100	2
					BAY CREE	K BASIN						
134	05513000	Bay Creek at Nebo, Ill.	161	462.56	1939–	Aug. 16, 1946	19.31	23,500	Dec. 3	14.60	10,700	4
				I	LLINOIS RI	VER BASIN						
135	05520500	Kankakee River at Momence, Ill.	2,294	609.18	1905, 1906, 1914-	Mar. 6, 1979	^t 10.51	16,000	Dec. 3	5.79	9,450	8
136	05525000	Iroquois River at Iroquois, Ill.	686	614.34	1944-	June 13, 1958	26.31	10,400	Dec. 6	17.86	3,500	<2
137	05526000	Iroquois River at Che- banse, Ill.	2,091	595.99	1923-	May 13, 1933	16.10	27,000	Dec. 6	14.78	15,100	3
138	05527500	Kankakee River near	5,150	510.86	1933-	Mar. 7, 1979 July 13, 1957	¹ 421.68 11.40	27,000 75,900	Dec. 3	8.53	62,700	60
120	05530000	Wilmington, Ill.	222	(50.20	1045 50	Jan. 30, 1968	t _{13.88}		D 0	0.00	1 700	
139	05528000	Des Plaines River near Gurnee, Ill.	232	650.30	1945–58, 1960–	Apr. 3, 1960	10.64	3,070	Dec. 8	8.60	1,780	4
140	05528500	Buffalo Creek near	19.6	658.60	1952-	July 22, 1982	7.94	887	Dec. 2	6.94	610	7
141	05529000	Wheeling, Ill. Des Plaines River near Des Plaines, Ill.	360	626.31	1940–	Apr. 2, 1960	8.56	4,670	Dec. 3	7.54	3,550	9
142	05529500	McDonald Creek near	7.93	638.12	1952-	June 20, 1972	7.58	664	Dec. 3	7.46	548	15
143	05530000	Mount Prospect, Ill. Weller Creek at Des	13.2	634.02	1950–	July 13, 1975 June 10, 1967	8.04 15.09	1,590	Dec. 2	8.63	792	3
		Plaines, Ill.										
144	05530990	Salt Creek at Rolling Meadows, Ill.	30.5	686.40	1973–	Apr. 18, 1975	10.82	910	Dec. 3	12.56	1,060	35
145	05531500	Salt Creek at Western	114	624.93	1945–	Aug. 28, 1972	8.55		Dec. 5	8.71	2,070	40
146	05532000	Springs, Ill. Addison Creek at Bell-	17.9	617.65	1950-	Mar. 4, 1979 Aug. 7, 1982	8.48 10.68	1,930 839	Dec. 3	8.94	639	7
		wood, Ill.							Dec. 25	5.92	336	<2
147	05532500	Des Plaines River at Riverside, Ill.	630	594.68	1943–	Mar. 20, 1948 Jan. 26, 1969	8.28 ^t 49.82	6,510	Dec. 5	8.01	6,130	15
148	05534500	North Branch Chicago River at Deerfield, Ill.	19.7	638.88	1952–	July 22, 1982	10.93	756	Dec. 3	10.78	702	50
149	05535000	Skokie River at Lake	13.0	648.75	1951–	July 22, 1982	8.35	435	Dec. 3	7.94	394	20
150	05535070	Forest, Ill. Skokie River near High-	21.1	622.83	1967-	July 22, 1982	8.44	716	Dec. 3	8.46	724	40
151	05535500	land Park, Ill. West Fork of North Branch Chicago River	11.5	637.98	1952-	July 22, 1982	9.66	1,070	Dec. 2	8.29	744	8
152	05536000	at Northbrook, Ill. North Branch Chicago River at Niles, Ill.	100	601.99	1950–	June 11, 1967	9.83	2,210	Dec. 3	8.99	1,480	6

Table 3. Summary of peak stages and discharges at 491 streamflow gaging sites in the study area—Continued

									Flood data			
Site	Permanent station	Stream name and	Drainage area	Datum of gage above	Period of	Previous f		ecord	Janu	ary 1983, Ap	December 198 oril 1983, or N	Aay 1983
no.	number	location	(mi ²)	NGVD of 1929 (feet)	record	Date	Gage height (feet)	Discharge (ft ³ /s)	Date	Gage height (feet)	Discharge (ft ³ /s)	Recurrenc interval (years)
				ILLINOI	S RIVER B	ASIN—Continued	i					
153	05536215	Thorn Creek at Glen- wood, Ill.	24.7	610.97	1949-	Aug. 17, 1968	11.26	2,600	Dec. 3	10.98	2,210	20
154	05536235	Deer Creek near Chi- cago Heights, Ill.	23.1	615.95	1948–	July 13, 1957	11.75	1,380	Dec. 3	11.49	848	10
155	05536255	Butterfield Creek at Flossmoor, Ill.	23.5	616.80	1948-	May 22, 1982	11.97	2,160	Dec. 3	11.40	1,700	15
156	05536265	Lansing ditch near Lan- sing, Ill.	8.84	607.16	1948–	May 10, 1948 Oct. 11, 1954	9.24 10.18	461 — —	Dec. 3	9.11	200	2
157	05536275	Thorn Creek at Thorn- ton, Ill.	104	586.43	1948–	July 13, 1957	16.00 17.06	4,700	Dec. 3	15.95	3,370	8
158	05536290	Little Calumet River at South Holland, Ill. u	208	575.00	1947-	June 14, 1981 Apr. 6, 1947	19.24	4,760	Dec. 4	19.46	3,520	7
159	05536500	Tinley Creek near Palos	11.2	607.40	1951-	June 14, 1981 Oct. 10, 1954	20.20 10.30	1,930	Dec. 3	9.39	1,310	15
160	05539000	Park, Ill. Hickory Creek at Joliet,	107	526.00	1944-	June 13, 1981	14.90	20,500	Dec. 3	9.92	8,360	15
161	05539900	Ill. West Branch DuPage River near West Chi-	28.5	717.76	1961-	June 10, 1967	10.36	805	Dec. 3	10.44	984	45
162	05540095	cago, Ill. West Branch DuPage River near Warren-	90.4	688.59	1968–	Aug. 26, 1972	4.70	1,980	Dec. 3	4.88	2,160	25
163	05540500	ville, Ill. DuPage River at Shore-wood, Ill.	324	564.62	1940-	Oct. 11, 1954	11.06	12,000	Dec. 3	7.61	5,260	4
164	05542000	Mazon River near Coal City, Ill.	455	527.41	1939-	July 15, 1958	19.70	17,600	Dec. 4	19.51	22,400	50
165	05543500	Illinois River at Marseilles, Ill.	8,259	462.91	1919-	July 14, 1957	15.20	93,900	Dec. 4	16.78	94,100	45
166	05548280	Nippersink Creek near Spring Grove, Ill.	192	746.00	1966–	Feb. 20, 1971	13.03	3,980	Dec. 4	11.01	1,640	4
167	05549000	Boone Creek near McHenry, Ill.	15.5	769.56	1948-	June 2, 1970	4.87	276	Dec. 3	4.02	190	5
168	05550500	Poplar Creek at Elgin, Ill.	35.2	716.00	1951-	Apr. 22, 1973	5.45	896	Dec. 3	5.67	761	20
169	05551200	Ferson Creek near St. Charles, Ill.	51.7	704.84	1960-	Feb. 28, 1965	¹ 9.66	1.070	Dec. 3	7.05	1,560	7
170	05551700	Blackberry Creek near Yorkville, Ill.	70.2	612.34	1960-	Feb. 20, 1971 May 17, 1974	7.64 8.58	1,970 1,320	Dec. 4	7.61	924	4
171	05552500	Fox River at Dayton, Ill.	2,642	462.30	1914-	Oct. 11, 1954	24.63	47,100	Dec. 3	17.17	26,000	15
172	05554000	North Fork Vermilion River near Charlotte,	186	638.00	1943	Jan. 25, 1960 May 14, 1970	¹ 36.47 16.13	4,550	Dec. 4	15.31	4,260	9
173	05554500	Ill. Vermilion River at Pon-	579	619.45	1942-	June 3, 1980	18.12	11,300	Dec. 4	19.16	13,100	35
174	05555300	tiac, Ill. Vermilion River near	1,251	520.58	1931-	July 15, 1958	15.30	33,500	Dec. 4	27.13	31,800	35
175	05558300	Leonore, Ill. Illinois River at Henry,	13,543	425.88	1981-				Dec. 7	30.70	108,000	
176	05567500	III. Mackinaw River near	767	607.01	1944–	July 9, 1951	19.41	36,000	Dec. 4	20.21	44,800	>100
177	05568000	Congerville, Ill. Mackinaw River near Green Valley, Ill.	1,089	477.10	1922-	June 3, 1980 May 19, 1927	19.52 16.80		Dec. 6	16.13	51,100	>100
178	05568500	Illinois River at King- ston Mines, Ill.	15,819	428.00	1939-	June 3, 1980 May 23, 1943	15.98 26.02	46,700 83,100	Dec. 7	23.86	88,800	40
179	05569500	Spoon River at London	1,062	508.97	1942-	June 23, 1974	28.03	41,000	Dec. 9 Dec. 3	24.37 23.39	14,200	4
180	05570000	Mills, Ill. Spoon River at Seville, Ill.	1,636	467.04	1914-	Aug. 22, 1924	30.77	37,300	Dec. 5	27.00	20,900	7
181	05570370	Big Creek near Bryant, Ill.	41.2	504.54	1971-	June 24, 1974 June 23, 1974	31.82 12.90	1,220	Dec. 3	12.92	1,050	3
182	05570500	Illinois River at Havana,	18,299			June 3, 1980	13.05	~-	Dec. 9		80,200	
183	05572000	Ill. Sangamon River at Monticello, Ill.	550	625.89	1908–12 1914–	Oct. 4, 1926 May 16, 1968	18.50 18.55	19,000	Dec. 6	13.89	3,880	<2

Table 3. Summary of peak stages and discharges at 491 streamflow gaging sites in the study area—Continued

								F	lood data			
Site	Permanent station	Stream name and	Drainage area	Datum of gage above	Period of	Previous f	lood of re	cord	Janua		ecember 19 oril 1983, or l	
no.	number	location	(mi ²)	NGVD of 1929 (feet)	record	Date	Gage height (feet)	Discharge (ft ³ /s)	Date	Gage height (feet)	Discharge (ft ³ /s)	Recurrence interval (years)
				ILLINOI	S RIVER BA	ASIN—Continued						-
184	05573540	Sangamon River at Route 48 at Decatur, Ill.	938	583.43	1982–				Dec. 4	16.40	4,500	
185	05576000	South Fork Sangamon River near Rochester, Ill.	867	511.30	1949–	July 1, 1957 Apr. 14, 1979	28.36 31.92	18,100	Dec. 4	27.50	8,940	4
186	05576500	Sangamon River at Riverton, Ill.	2,618	508.38	1908–12, 1915–	May 19, 1943	31.52	68,700	Dec. 4	23.82	29,600	9
187	05577500	Spring Creek at Spring- field, Ill.	107	524.65	1948	Mar. 30, 1960	12.70	6,750	Dec. 3	14.44	8,080	3
188	05578500	Salt Creek near Rowell, Ill.	335	610.00	1942-	May 16, 1968	29.21	24,500	Dec. 3	20.71	4,310	3
189	05579500	Lake Fork near Corn- land, Ill.	214	555.06	1948	Apr. 12, 1979	23.11	8,930	Dec. 4	22.43	7,270	14
190	05580950	Sugar Creek near Bloomington, Ill.	34.4	725.11	1974–	Mar. 3, 1979	11.04	3,680	Dec. 3	14.02	6,600	100
191	05582000	Salt Creek near Green- view, Ill.	1,804	479.00	1941-	May 19, 1943	20.50	41,200	Dec. 4	20.21	37,500	35
192	05583000	Sangamon River near Oakford, Ill.	5,093	452.88	1909–11, 1911–12, 1914–19, 1921–22, 1928–33, 1939–	May 20, 1943	25.63	123,000	Dec. 5	23.65	68,700	40
193	05585000	LaMoine River at Rip- ley, Ill.	1,293	431.1	1921-	Sept. 27, 1970	28.42	24,100	Dec. 5	27.27	21,000	20
194	05585500	Illinois River at Meredo- sia, Ill.	26,028	418.0	1938–	May 26, 1943	28.61	123,000	Dec. 12	26.40	112,000	20
195	05587000	Macoupin Creek near Kane, Ill.	868	426.77	1921–33, 1940–	May 18, 1943	28.5	40,000	Dec. 4	26.3	26,700	15
						R MAIN STEM						
196	05587500	Mississippi River at Alton, Ill.	171,500	.00	1927–	Apr. 28, 1973	423.155	^y 535,000	Dec. 5	428.68	422,000	15
					HOKIA CRI							
197	05587900	Cahokia Creek at Edwardsville, Ill.	212	425.62	1969-	Apr. 12, 1979	24.74	8,200	Dec. 4 Dec. 25	19.52 19.76	5,210 5,330	2 3
100	0.010500	Mariana Diagram and Inc	561		DREAU RIV		20.67		D 2	20.02	20.000	0.5
198	06910500	Moreau River near Jef- ferson City, Mo.	561	546.33	1904, 1942, 1948–75	1904 June 8, 1937 Oct. 14, 1969	38.67 19.17 28.60	 24,400	Dec. 3	29.83	30,000	85
				o	SAGE RIVE	ER BASIN						
199	06927000	Maries River at West- phalia, Mo.	257	542.74	1937, 1948–81	Oct. 12, 1969	20.83	26,100	Dec. 3	21.96	39,000	>100
				GAS		IVER BASIN						
200	06927600	Wheeler Branch near Mountain Grove, Mo.	1.34		1955–	June 16, 1958	6.32	940	Dec. 2	5.41	680	5
201	06927800	Osage Fork at Drynob, Mo.	404	927.85	1903, 1914, 1943, 1962–81	1903 Apr. 12, 1979	31 17.96	21,300	Dec. 3	19.37	38,800	>100
202	06928000	Gasconade River near Hazelgreen, Mo.	1,250	844.75	1916, 1929–71, 1973–	January 1916	30.6	90,000	Dec. 3	34.46	90,000	35
203		Roubidoux Creek at Waynesville, Mo.	278						Dec. 3		^v 27,700	60
204	06930000	Big Piney River near Big Piney, Mo.	560	800.99	1922-81	Dec. 27, 1942	20.7	32,700	Dec. 3	24.54	^w 81,200	>100
205	06931000	Beaver Creek near Rolla, Mo.	13.7	805.31	1949-58, 1960-79	July 28, 1979	9.50	12,000	Dec. 3	6.84	5,900	15
206	06931500	Little Beaver Creek near Rolla, Mo.	6.41		1945, 1948–79	July 17,1958	8.57	7,420	Dec. 3	7.64	5,130	25

Table 3. Summary of peak stages and discharges at 491 streamflow gaging sites in the study area—Continued

				Datum of				FI	ood data	Floor of	Docombos 4	202
Site	Permanent station	Stream name and	Drainage area	Datum of gage above	Period of	Previous f	lood of re	ecord	Janua		December 19 pril 1983, or	
no.	number	location	(mi ²)	NGVD of 1929 (feet)	record	Date	Gage height (feet)	Discharge (ft ³ /s)	Date	Gage height (feet)	Discharge (ft ³ /s)	Recurrence interval (years)
				GASCONAI	DE RIVER I	BASIN—Continue	i					
207	06932000	Little Piney Creek at	200	693.40	1915	Aug. 20, 1915	16.70		Dec. 3	16.70	29,300	40
208	06933500	Newburg, Mo.	2.840	657.61	1929- 1897	Aug. 14, 1946	16.2	32,500	D., 6	21.24	126 000	> 100
206	00933300	Gasconade River at Jerome, Mo.	2,840	657.64	1903-06 1915 1923-	Jan. 6, 1897	28.96	120,000	Dec. 3	31.34	136,000	>100
209	06934000	Gasconade River near Rich Fountain, Mo.	3,180	553.70	192265	Apr. 16,1945	29.13	96,400	Dec. 6	33.30	134,000	>100
				MISSISS	IPPI RIVE	R MAIN STEM						
210	07010000	Mississippi River at St. Louis, Mo.	697,000		1844 1961–	June 27, 1844 Apr. 28, 1973	41.32 43.23	1,300,000 852,000	Dec. 7	39.27	739,000	5
				MER	AMEC RIV	ER BASIN						
211	07010350	Meramec River at Cook Station, Mo.	199	864.51	1966–81	Feb. 10, 1966	17.74	34,900	Dec. 3	15.29	16,500	5
212	07011200	Love Creek near Salem, Mo.	.89		195581	Apr. 11, 1979	7.13	365	Dec. 3	5.19	160	5
213	07011600	Love Branch at Rolla, Mo.	1.72	1040.00	1978–	Apr. 11, 1979	4.37	1,700	Dec. 2	4.17	1,320	
214	07012050	Dry Fork near St. James, Mo.	370		1944–50	December 1942 Aug. 15, 1946	24.5 21.7	28,000	Dec. 3	20.5	22,000	5
215	07013000	Meramec River near Steelville, Mo.	781	681.68	1915 1923–	Aug. 20, 1915	26.52	60,000	Dec. 4	25.59	49,300	45
216	07014200	Courtois Creek at Berry- man, Mo.	173	733.21	1944-47	June 8, 1945	12.89	24,300		12.39	22,000	
217	07014500	Meramec River near Sullivan, Mo.	1,475	581.82	1915, 1922–33 1943–	August 1915	33.48	90,000	Dec. 4	32.22	67,700	90
218	07015000	Bourbeuse River near St. James, Mo.	21.3	899.46	1945 1947–81	June 8, 1945 Apr. 11, 1979	14.0 11.17	8,390 8,390		10.84	7,100	15
219	07015720	Bourbeuse River near Highgate, Mo.	135	804.10	1957 1965–	June 1957 Apr. 11, 1979	23 22.1		Dec. 3	23.65	49,300	>100
220	07016000	Bourbeuse River near Spring Bluff, Mo.	608	626.34	1915 1944–81	August 1915 June 30, 1957	35.66 34.71	50,700	Dec. 5	41.26	87,000	>100
221	07016500	Bourbeuse River at Union, Mo.	808	488.58	1915 1921–	Aug. 22, 1915	28.5	50,000	Dec. 5	33.80	73,300	>100
222	07017000	Meramec River at Rob- ertsville, Mo.	2,673	448.24	1915 1940–51	August 1915	36.1	125,000	Dec. 5	37.6	140,000	>100
223	07017200	Big River at Irondale, Mo.	175	753.28	1965-	Nov. 1, 1972	27.92	43,200	Dec. 3	17.29	17,900	<5
224	07017500	Dry Branch near Bonne Terre, Mo.	3.35		1956–81	June 30, 1957	5.55	1,520	Dec. 3	3.82	720	<5
225	07017700	Fountain Farm Branch near Potosi, Mo.	2.16		1957–81	June 30, 1957	18.36	1,890	Dec. 3	13.78	660	<5
226	07018000	Big River near Desoto, Mo.	718	538.79	1915 1949–	August 1915	29.4	70,500	Dec. 4	22.35	37,400	10
227	07018500	Big River at Byrnes- ville, Mo.	917	433.69	1915 1922–	Aug. 21, 1915	30.2	80,000	Dec. 5	25.18	36,600	25
228	07019000	Meramec River near Eureka, Mo.	3,788	404.18	1903-06, 1915 1922-	Aug. 22, 1915	42.2	175,000	Dec. 6	42.89	145,000	>100
				MISSISS	IPPI RIVER	R MAIN STEM						
229	07020500	Mississippi River at Chester, Ill.	708,600		1844 1928-	June 30, 1844 Apr. 30, 1973	39.8 43.32	1,350,000 886,000	Dec. 9	41.6	825,000	5
			н	EADWATER		N CHANNEL BA		, "				
230	07021000	Castor River at Zalma, Mo.	423	350.38	1915, 1920–	Mar. 11, 1935	28.22 27.05		Dec. 4	29.91	97,100	>100
231		Crooked Creek at Lutes- ville, Mo.	75.2		1920-	Mar. 28, 1977 ——		40,800			^v 40,900	>100
232		Whitewater River near Burfordville, Mo.	238								^v 60,300	>100

Table 3. Summary of peak stages and discharges at 491 streamflow gaging sites in the study area—Continued

MISSISSIPP RIVER MAIN STEM MISSISSIPP RIVER MAIN MISSISSIPP RIVE				lood data	F								
					ecord	flood of re	Previous 1		gage above				Site
233 07022000 Mississippi River at 713,200 300.00 1844, 134e 4,1844 45.14 1,375,000 Dec. 9 42.65 846,000 13331 13		Discharge (ft ³ /s)	height	Date		height	Date						no.
Thebes, III. 1933- Column Colum							MAIN STEM	SIPPI RIVEF	MISSISS				
234 07024500 South Field Ontion River and Creenfield, Tenn. 1,852 246.48 1929-58, Jan. 24, 1937 40, 4 95.00 Dec. 6 10.54 10.506 10.64 10.600 Dec. 7 10.26 10.64 10.600 Dec. 6 10.600 Dec. 7 10.600 Dec. 8 10.600 Dec. 8 10.600 Dec. 1 10.600 Dec. 2 10	00 5	846,000	42.65	Dec. 9	1,375,000	45.14	June 4, 1844		300.00	713,200		07022000	233
Part							R BASIN	BION RIVE	OI				
235 07026000 Obicon River at Obicon Tenn. 1.852 246.48 1920-88, Jan. 24, 1937 40.4 99.500 Obc. 6 31.98 19.400 Obc. 30 34.83 41.000 Obc. 30 30.61 45.800 Obc. 30 30.61 45.800 Obc. 30 30.61 45.800 Obc. 30 30.61 45.800 Obc. 30 Obc. 40 45.800 Obc. 30 Obc. 40 24.800 Obc. 30 Obc. 40 Obc. 30 Obc	000 <10	2,680 16,000	16.54	Dec. 28	25,600	17.82	Jan. 22, 1937	1929–	300.36	383	near Greenfield,	07024500	234
HATCHIE RIVER BASIN	00 <2 00 5	19,400 41,000	31.98 34.83	Dec. 6 Dec. 30	99,500	40.4	Jan. 24, 1937		246.48	1,852	Obion River at Obion,	07026000	235
Marchie River at Bolivar, Tenn. 1,480 323.49 1929 Mar. 18, 1973 21.66 61,600 Dec. 5 16.56 13,300 Dec. 20,61 48,800 Dec. 20,70 17,89 20,700	00 <2	14,600	30.51	Apr. 15			D DACINI	TCUIE DIVI	TIA'				
Var, Tenn. LOOSAHATCHIE RIVER BASIN Loosahatchie River near Arlington, Tenn. 262 \$^250 1969	00 <2	13 300	16 56	Dec 5	61 600	21.66				1.480	Hatchie River at Boli-	07029500	236
237 07030240 Loosahatchie River near Arlington, Tenn. 262 250 1969 Mar. 13, 1975 24.96 23,700 Dec. 4 21.62 8,980 Apr. 6 20.43 6,580	00 <20	45,800	20.61	Dec. 30	01,000	21.00	Mai. 10, 1773	1,2,	323.47	1,400		07023300	250
Arlington, Tenn. Part Pa							RIVER BASIN	HATCHIE I	LOOSA				
1988 1988	60 d2	8,980 9,860 6,580	21.98	Dec. 27	23,700	24.96	Mar. 13, 1975	1969–	^e 250	262		07030240	237
10wn, Tenn.		0,000	20.10	ripr. o			BASIN	OLF RIVER	w				
Noncoman Creek near Germantown, Tenn. Fig. Germantown, Tenn. Germantown, Tenn. Germantown, Tenn. Fig. Germantow	00 d>5	13,100 20,100 8,290	22.82	Dec. 28	33,400	27.98	Mar. 14, 1975	1969-	235.76	699		07031650	238
239 07032200 Nonconnah Creek near Germantown, Tenn. 68.2 262.92 1969- Mar. 12, 1975 27.11 9,680 Dec. 3 22.7 6,940 Dec. 26 18.11 4,650 Apr. 5 19.37 5,270	.50 \2	0,270	13.00	Apr. 0			EEK BASIN	ONNAH CE	NONC				
Commantown, Tenn. Comm	40 ^d <2	6.940	22.7	Dec. 3	9,680	27.11				68.2	Nonconnah Creek near	07032200	239
ST. FRANCIS RIVER BASIN 1940, 1955-79	50 ^d <2	4,650	18.1	Dec. 26	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		,						
Ington, Mo. 1955-79	.70 <2	3,270	19.37	Арг. э			VER BASIN	RANCIS RI	ST. F				
ericktown, Mo. St. Francis River near Patterson, Mo. 242 07037500 St. Francis River near Patterson, Mo. 243 07038000 Clark Creek at Patterson, Mo. 244 07043500 Little River ditch 1 near Aso Pose Patterson, Mo. 245 07047942 L'Anguille River near Colt, Ark. 246 07055000 Kings River near Berryville, Ark. 247 07054400 Charley Creek near Omaha, Ark. 248 07055650 Smith Creek near Bosley, Ark. 249 07055600 Buffalo River near St. Joe, Ark. 250 07057500 North Fork River near St. Joe, Ark. 250 07057500 North Fork River near St. Joe, Ark. 251 07057500 North Fork River near St. Joe, Ark. 252 07058000 Bryant Creek near St. Joe, Ark. 253 07060500 White River near St. Joe, Ark. 254 07057500 North Fork River near St. Joe, Ark. 255 07058000 Bryant Creek near St. Joe, Ark. 256 07058000 Bryant Creek near St. Joe, Ark. 257 07058000 Bryant Creek near St. Joe, Ark. 258 07057500 North Fork River near St. Joe, Ark. 259 07058000 Bryant Creek near St. Joe, Ark. 250 07058000 Bryant Creek near St. Joe, Ark. 251 07058000 Bryant Creek near St. Joe, Ark. 252 07058000 Bryant Creek near St. Joe, Ark. 253 07060500 White River at Calico 9,978 316.38 1905— Jan. 31, 1916 52.9 350,000 Dec. 4 41.14 201,000	00 35	10,000	17.97	Dec. 3	13,600	18.46	Dec. 21, 1967		823.81	40.3		07033000	240
Patterson, Mo. Clark Creek at	00 <5	2,100	8.80	Dec. 3	5,550	9.62	May 21, 1957	1956–		4.03		07035500	241
Son, Mo. 1940, Mar. 20, 1955 12.53 11,200		ŕ			100,000		_	1921-			St. Francis River near Patterson, Mo.		
Morehouse, Mo. Feb. 1, 1982 15.2 8,530 Dec. 26 17.15 9,930	00 100	15,500	13.74	Dec. 3	11,200			1940,	397.02	37.5		07038000	243
245 07047942 L'Anguille River near Colt, Ark. 192.52					-			1945	280.76	450		07043500	244
246 07050500 Kings River near Berryville, Ark. 27 963.10 1927, Apr. 14, 1927 38.0 62,000 Dec. 3 30.20 39,400 1939 247 07054400 Charley Creek near Omaha, Ark. 27 271.34 1962-81, Mar. 10, 1973 13.18 2,850 Dec. 3 16.54 4,850 248 07055650 Smith Creek near Boxley, Ark. 249 07055800 Dry Branch near Vendor, Ark. 250 07056000 Buffalo River near St. Joe, Ark. 250 07057500 North Fork River near St. Joe, Ark. 251 07057500 Dry Branch near Ventecumseh, Mo. 252 07065000 Bryant Creek near St. Tecumseh, Mo. 253 07060500 White River at Calico Rock, Ark. 29,978 316.38 1905- Jan. 31, 1916 52.9 350,000 Dec. 4 41.14 201,000 252 07065000 White River at Calico Rock, Ark. 26700 2670		7,020					,	1971–	192.52	535	L'Anguille River near	07047942	245
Tyville, Ark. 1939— 247 07054400 Charley Creek near Omaha, Ark. 248 07055650 Smith Creek near Boxley, Ark. 249 07055800 Dry Branch near Vendor, Ark. 250 07056000 Buffalo River near St. Joe, Ark. 251 07057500 North Fork River near Tecumseh, Mo. 252 07058000 Bryant Creek near St. Tecumseh, Mo. 253 07060500 White River at Calico Rock, Ark. 264 07055650 Smith Creek near Boxley, Ark. 275 07056000 Bryant Creek near St.							R BASIN	HITE RIVEI	W.		Colt, Ark.		
Omaha, Ark. 1983 248 07055650 Smith Creek near Box-ley, Ark. 1983 249 07055800 Dry Branch near Vendor, Ark. 1983 250 07056000 Buffalo River near St. 1984 Sepployee	00 9	39,400	30.20	Dec. 3	62,000	38.0	Apr. 14, 1927		963.10	527		07050500	246
ley, Ark. 249 07055800 Dry Branch near Vendor, Ark. 250 07056000 Buffalo River near St. Joe, Ark. 251 07057500 North Fork River near Tecumseh, Mo. 252 07058000 Bryant Creek near Tecumseh, Mo. 253 07060500 White River at Calico Rock, Ark. 254 07065000 Rock, Ark. 255 07065000 Rock, Ark. 255 07065000 Bryant Creek near Tecumseh, Mo. 256 07065000 Rock, Ark. 257 07060500 White River at Calico Rock, Ark. 258 07060500 Rock, Ark. 259 07060500 Rock, Ark. 269 06.15 0.70 0.70 0.70 0.70 0.70 0.70 0.70 0.7	50 65	4,850	16.54	Dec. 3	2,850	13.18			717.34	3.41		07054400	247
249 07055800 Dry Branch near Vendor, Ark. 6.15 — 1962–81, Nov. 24, 1973 b14.24 3,880 Dec. 3 15.30 5,000 250 07056000 Buffalo River near St. Joe, Ark. 829 560.35 1915, 1927–33, 1936– August 1915 50.5 139,000 Dec. 3 53.75 158,000 251 07057500 North Fork River near Tecumseh, Mo. 561 584.67 1945– Apr. 22, 1974 22.15 37,900 Dec. 3 17.72 26,700 252 07058000 Bryant Creek near Tecumseh, Mo. 570 573.15 1945- Mar. 11, 1973 21.93 33,200 Dec. 3 26.74 71,100 253 07060500 White River at Calico Rock, Ark. 9,978 316.38 1905- Jan. 31, 1916 52.9 350,000 Dec. 4 41.14 201,000	00 33	7,200	13.74	Dec. 3	6,830	^b 15.80	Nov. 24, 1973	1963–83		8.35		07055650	248
Joe, Ark. 1927–33, 1936– 251 07057500 North Fork River near Tecumseh, Mo. 252 07058000 Bryant Creek near Tecumseh, Mo. 253 07060500 White River at Calico Rock, Ark. 254 1945 Apr. 22, 1974 22.15 37,900 Dec. 3 17.72 26,700 Dec.	00 35	5,000	15.30	Dec. 3	3,880	^b 14.24	Nov. 24, 1973			6.15	Dry Branch near Ven-	07055800	249
251 07057500 North Fork River near Tecumseh, Mo. 561 584.67 1945- Apr. 22, 1974 22.15 37,900 Dec. 3 17.72 26,700 252 07058000 Bryant Creek near Tecumseh, Mo. 570 573.15 1945- Mar. 11, 1973 21.93 33,200 Dec. 3 26.74 71,100 253 07060500 White River at Calico Rock, Ark. 9,978 316.38 1905- Jan. 31, 1916 52.9 350,000 Dec. 4 41.14 201,000	00 65	158,000	53.75	Dec. 3	139,000	50.5	August 1915	1927-33,	560.35	829		07056000	250
Tecumseh, Mo. 253 07060500 White River at Calico 9,978 316.38 1905— Jan. 31, 1916 52.9 350,000 Dec. 4 41.14 201,000 Rock, Ark.	00 10	26,700	17.72	Dec. 3	37,900	22.15	Apr. 22, 1974		584.67	561	Tecumseh, Mo.		
Rock, Ark.	00 >100	71,100	26.74	Dec. 3	33,200	21.93	Mar. 11, 1973	1945–	573.15	570		07058000	252
254 07060710 North Sylamore Creek 58.1 434.99 1966 Apr. 22 1973 17.61 17.800 Dec. 3 20.60 25.200											White River at Calico Rock, Ark.		
near Fifty Six, Ark.	00 35	25,200	20.60	Dec. 3	17,800	17.61	Apr. 22, 1973	1966–	434.99	58.1	North Sylamore Creek near Fifty Six, Ark.	07060710	254

Table 3. Summary of peak stages and discharges at 491 streamflow gaging sites in the study area—Continued

				5				<u> </u>	lood data	e		
Site	Permanent station	Stream name and	Drainage area	Datum of gage above	Period of	Previous	flood of re	ecord	Janu		December 19 pril 1983, or	May 1983
no.	number	location	(mi ²)	NGVD of 1929 (feet)	record	Date	Gage height (feet)	Discharge (ft ³ /s)	Date	Gage height (feet)	Discharge (ft ³ /s)	Recurrence interval (years)
				WHITE	RIVER BA	ASIN—Continued						
255	07060830	Wolf Bayou near	0.27		1963-83	Mar. 10, 1973	8.05	190	Dec. 3	9.49	283	25
256	07061000	Drasco, Ark. White River at Bates- ville, Ark.	11,070	237.72	1904–58, 1979–	Feb. 1, 1916	31.9	382,000	Dec. 3	29.27	312,000	x
257	07061300	East Fork Black River at Lesterville, Mo.	94.5	655.34	1935, 1960–	March 1935 Nov. 2, 1972	13.8 11.13	 10,400	Dec. 3	10.04	8,110	8
258	07061500	Black River near Annapolis, Mo.	484	569.72	1939-	Nov. 2, 1972	21.55	49,700	Dec. 3	17.64	40,800	10
259	07064000	Black River near Corning, Ark.	1,749	272.90	1915, 1916, 1919–	June 13, 1945	16.92	48,600	Dec. 7	14.82	23,400	x
260	07064300	Fudge Hollow near Licking, Mo.	1.72	1,157.59	1957–79	Sept. 4, 1965	6.46	580	Dec. 3	5.48	340	10
261	07064500	Big Creek near Yukon, Mo.	8.36	1,194.81	194979	Oct. 27, 1970	5.44	5,520	Dec. 3	8.17	4,600	10
262	07066000	Jacks Fork at Eminence, Mo.	398	617.87	1904, 1922–	March 1904 June 13, 1928	25 17.2	40,000	Dec. 4	13.84	22,900	<5
263	07066500	Current River near Emi- nence, Mo.	1,272	568.82	1904, 1921–75	March 1904 Feb. 10, 1966	37.5 29.69	88,500	Dec. 3	27.78	79,000	20
264	07067000	Current River at Van Buren, Mo.	1,667	442.78	1904, 1933–	Mar. 26, 1904 Aug. 21, 1915	29.02 25.9	125,000	Dec. 3	23.9	71,100	10
265	07068000	Current River at Doniphan, Mo.	2,038	321.21	1904, 1919–	March 1904	25.9	130,000	Dec. 3	25.49	122,000	>100
266	07068250	Middle Fork Little Black River at Grandin, Mo.	6.85	571.84	1981-	Aug. 15, 1982	10.02	4,220	Dec. 3	10.98	6,080	>100
267	07068300	North Prong Little Black River near Grandin, Mo.	39.4	468.61	1980-	Aug. 16, 1982	12.84	9,800	Dec. 3	17.32	31,800	>100
268	07068380	Little Black River near Grandin, Mo.	79.5	400.44	1980–	Aug. 16, 1982	11.90	16,000	Dec. 3	13.78	41,800	>100
269	07068500	Little Black River near Fairdealing, Mo.	187	297.27	1936–42, 1955–79	Mar. 27, 1977	23.51	52,800	Dec. 3	23.73	54,200	60
270	07068540	Logan Creek at Oxly, Mo.	37.5	303.34	1980–	Aug. 16, 1982	13.20	6,760	Dec. 3	15.3	15,200	>100
271	07068863	Fourche River near Poy- nor, Mo.	87.2		1976–	Mar. 27, 1977	15.91	25,400	Dec. 3	18.28	35,600	>100
272	07069000	Black River at Pocahon- tas, Ark.	4,845	241.81	1927, 1937–78, 1981–	Apr. 17, 1927	25.9	80,000	Dec. 7	25.22	66,300	х
273	07069500	Spring River at Imboden, Ark.	1,183	254.07	1915, 1937–	August 1915	32.1	125,000	Dec. 3	^b 38.12	244,000	>100
274	07070500	Eleven Point River near Thomasville, Mo.	361		1951–76	Feb. 10, 1966	21.65	31,000	Dec. 3	17.5	15,000	10
275	07071500	Eleven Point River near Bardley, Mo.	793	410.84	1915, 1922–	August 1915	19.7	44,000	Dec. 3	21.64	49,800	65
276	07072000	Eleven Point River near Ravenden Springs,	1,134	291.98	1930–33, 1936–	Nov. 17, 1958	20.83	37,600	Dec. 3	^b 29.06	162,000	>100
277	07072500	Ark. Black River at Black Rock, Ark.	7,369	229.56	1905-	Aug. 21, 1915	31.9	160,000	Dec. 4	^b 31.51	190,000	>100
78	07073500	Piney Fork at Evening Shade, Ark.	99.2	420.62	1939–	Jan. 24, 1949	23.42	17,500	Dec. 3	^b 30.32	50,400	>100
79	07074000	Strawberry River near Poughkeepsie, Ark.	473	298.07	1937–	Jan. 24, 1949	29.30	52,000	Dec. 3	^b 35.9	158,000	>100
80	07074200	Dry Branch trib. near Sidney, Ark.	1.22	560.70	1961–81, 1983	Sept. 8, 1967	11.57	1,100	Dec. 3	12.40	1,230	14
81	07074500	White River at Newport. Ark.	19,860	194.09	1886–	Apr. 17, 1945	^y 35.9	343,000	Dec. 5	34.00	330,000	x
282	07074900	Trace Creek trib. near Marshall, Ark.	.26		1961-	Nov. 24, 1973	^b 10.50	208	Dec. 3	11.89	288	25
283	07075000	Middle Fork Little Red River at Shirley, Ark.	302	483.12	1935, 1939–	Jan. 24, 1949	28.3	101,000	Dec. 3	^b 37.53	241,000	>100
284	07075300	South Fork Little Red River at Clinton, Ark.	148	481.11		Mar. 28, 1977	26.43	32,700	Dec. 3	^b 34.27	67,900	100

Table 3. Summary of peak stages and discharges at 491 streamflow gaging sites in the study area—Continued

				Datum of				FI	ood data	Elood of F	ecember 19	182
Site	Permanent station	Stream name and	Drainage area	Datum of gage above	Period of	Previous	flood of red	ord			oril 1983, or	
no.	number	location	(mi ²)	NGVD of 1929 (feet)	record	Date	Gage height (feet)	Discharge (ft ³ /s)	Date	Gage height (feet)	Discharge (ft ³ /s)	Recurrence interval (years)
				WHITE	RIVER BA	SIN—Continued						
285	07075600	Choctaw Creek trib. near Choctaw, Ark.	1.36		1964-	June 8, 1974	^b 13.60	597	Dec. 3	19.07	1,760	>100
286	07077380	Cache River at Egypt, Ark.	701	222.99	1938–40, 1945–	Jan. 6, 1966	21.88	8,940	Dec. 30	19.44	5,270	3
287	07077950	Big Creek at Poplar Grove, Ark.	448	143.00	1971-	Apr. 23, 1973	31.74	5,910	Dec. 28	30.47	4,290	4
				AR	KANSAS R	IVER BASIN						
288	07250550	Arkansas River at Dam No. 13, near Van Buren, Ark.	150,547	372.36	1927-	May 12, 1943	s/438.0	850,000	Dec. 3	10.60	69,600	х
289	07251500	Frog Bayou at Rudy, Ark.	216	475.08	1945, 1950-	Apr. 15, 1945	18.5	39,500	Dec. 3	12.58	13,100	х
290	07252000	Mulberry River near Mulberry, Ark.	373	432.75	1928, 1939–	December 1927	22.0	59,000	Dec. 3	23.66	70,200	45
291	07256500	Spadra Creek at Clarks- ville, Ark.	61.1	351.99	1927, 1949, 1953–	June 5, 1974	19.93	27,400	Dec. 2	14.73	13,400	7
292	07257000	Big Piney Creek near Dover, Ark.	274	487.66	1949, 1951-	Dec. 10, 1971	28.7	74,600	Dec. 3	33.87	111,000	100
293	07257200	Little Piney Creek near Lamar, Ark.	154		1979–	Jan. 31, 1982	13.45	9,920	Dec. 3	15.35	13,300	$^{d}2$
294	07257500	Illinois Bayou near Scottsville, Ark.	241	447.54	1943, 1948–	May 10, 1943 Jan. 24, 1949	24.60 24.60	77,000 77,000	Dec. 3	^b 27.49	130,000	>100
295	07258000	Arkansas River at Dar- danelle, Ark.	153,670	280.16	1938-	May 13, 1943		683,000	Dec. 3	40.02	325,000	x
206	0=050500	na r	0.1	100.00	4030	May 25, 1943	43.6		D 4	22.02	10.000	_
296	07258500	Petit Jean River near Booneville, Ark.	241	423.39	1939–	Apr. 16, 1939	23.42	43,200	Dec. 3	22.03	19,900	5
297	07259500	Petit Jean River near Waveland, Ark.	516	339.70	1939–	Apr. 16,1939	34.0	62,600	Dec. 3	28.51	9,100	х
298	07260000	Dutch Creek at Wal- treak, Ark.	81.4	371.48	1946–	July 26, 1969	22.38	24,500	Dec. 3	20.75	18,400	20
299	07260500	Petit Jean River at Dan- ville, Ark.	764	303.33	1917–	Apr. 17, 1939	31.82	70,800	Dec. 3	29.36	47,500	х
300	07260630	Jake Creek near Chick- alah, Ark.	1.85		1961–80, 1983–	Oct. 12, 1973	в 10.20	1,070	Dec. 3	14.58	2,200	90
301	07260673	West Fork Point Remove Creek near Hattieville, Ark.	222		1979	Apr. 1, 1979	21.00	11,500	Dec. 3	26.62	64,100	^d >100
302	07260679	East Fork Point Remove Creek trib. near St. Vincent, Ark.	.09		1967–	Mar. 20, 1968	7.69	82	Dec. 3	8.24	102	25
303	07261000	Cadron Creek near Guy, Ark.	169	371.68	1955-	Aug. 14, 1957	24.95	18,600	Dec. 4	29.29	24,200	40
304	07261050	Pine Mountain Creek trib. near Damascus, Ark.	.29		1961–81, 1983	May 5, 1961	10.22	270	Dec. 3	13.50	573	>100
305	07261500	Fourche LaFave River near Gravelly, Ark.	410	410.50	1939–	May 20, 1960 July 26, 1969	30.30 30.30	69,400 69,400	Dec. 3	^b 32.45	162,000	>100
306	07261800	Brogan Creek near Rover, Ark.	1.40		1963-	Apr. 23, 1966	9.59	1,010	Dec. 3	^b 10.65	1,260	50
307	07262500	Fourche LaFave River near Nimrod, Ark.	684	305.25	1927, 1935, 1937–	June 1935	28.8	39,000	Dec. 3	10.03	6,200	х
308	07263000	South Fourche LaFave River near Hollis, Ark.	210	366.10	1942-	Mar. 30, 1945	19.47	54,400	Dec. 3	24.55	94,000	>100
309	07263100	Fourche LaFave River trib. near Perryville, Ark.	1.47		1962–	Mar. 28, 1975	9.72	700	Dec. 3	11.45	1,150	35
310	07263450	Arkansas River at Mur- ray Dam at Little Rock, Ark.	158,030	223.61	1833, 1844, 1873-	June 1883 May 27, 1943	\$34.6 \$/430.05	 536,000	Dec. 4	29.51	290,000	x
311	07264000	Bayou Meto near Lonoke, Ark.	207	199.11	1955-	May 18, 1968	26.55	4,700	Dec. 30	24.46	3,020	5

Table 3. Summary of peak stages and discharges at 491 streamflow gaging sites in the study area—Continued

				5					Flood data	EL 1 / E	1 400	
Site	Permanent station	Stream name and	Drainage area	Datum of gage above NGVD of	Period of	Previous	flood of re	ecord	Janua	ary 1983, Ap	December 198 oril 1983, or N	Aay 1983
no.	number	location	(mi ²)	1929 (feet)	record	Date	Gage height (feet)	Discharge (ft ³ /s)	Date	Gage height (feet)	Discharge (ft ³ /s)	Recurrenc interval (years)
				1	AZOO RIV	ER BASIN						
312	07267000	Hell Creek near New	27.3	326.92	1939,	Mar. 21, 1955	17.23	3,210	Dec. 4	10.49	5,260	5
		Albany, Miss.			1942,	Mar. 26, 1970	16.66	4,800	Dec. 26	b _{13.5}	8,430	60
		• • • •			1952-	17111. 20, 1570	10.00	1,000	Apr. 5	b _{13.2}	8,090	50
313	07268000	Little Tallahatchie River	526	273,48	1937.	Mar. 22, 1955	29.32	79,000	Dec. 26	28.53	74,600	c ₈₀
,13	07200000	at Etta, Miss.	320	213.46	1937,	Mai. 22, 1933	29.32	79,000	Apr. 6	26.53	40,800	^c 5
		at Littl, 171155.			1939-				•	29.02	85,200	c>100
114	07260500	Commence Consideration Page	20.5	210.0	1020 42	Mr. 21 1055	21.60	0.000	May 19			
314	07268500	Cypress Creek near Etta. Miss.	28.5	319.9	1939-42,	Mar. 21, 1955	21.58	8,800	Dec. 4	17.58	g8,700	^c 15 ^c 4
		Wilss.			1948,	May 11, 1970	18.78	9,970	Dec. 26	14.66	g _{5,700}	
					1952–				Apr. 5	14.33	g5,400	c ₃
									May 19	19.94	g _{11,300}	^c 30
315	07269000	North Tippah Creek near	20	386.36	1940–42,	July 21, 1953	23.63	6,180	Dec. 26	^b 14.19	2,260	c<2
		Ripley, Miss.			1948,	Nov. 28, 1968	21.17	7,100	Apr. 5	12.94	1,790	c<2
					1952-	Apr. 12, 1979	21.60		May 19	20.64	6,660	^c 20
316	07274000	Yocona River near	262	267.20	1947-	Mar. 21, 1955	28.72	44,100	Dec. 4	^b 24.76	6,910	c<2
		Oxford, Miss.							Dec. 26	^b 28.38	32,000	^c 20
									Apr. 6	26.44	11,200	c ₂
									Apr. 8	23.74	6,390	c<2
									May 19	^b 27.2	16,600	c ₄
317	07274250	Otoucalofa Creek at	84.1	249.12	1952-	Mar. 21, 1955	27.36	10,000	Dec. 4	23.47	4,830	2
,1,	07274230	Water Valley, Miss.	07.1	249.12	1932-	Mar. 15, 1973		10,400	Dec. 26			30
		water valley, miss.					26.84			27.43	13,500	
						Mar. 17, 1980	26.61	10,700	Apr. 5	22.74	4,310	<2
									Apr. 8	22,40	4,080	<2
									May 19	28.07	15,900	60
318	07275500	Long Creek at Court-	66.2	205.33	1940–43,	May 28, 1954	25.02	38,300	Dec. 4	^b 8.04		
		land, Miss.			1 94 8,				Dec. 26	12.26		
					1952-				May 19	17.71		
19	07280270	Tillatoba Creek below	37.1	^e 220	1975-	Mar. 29, 1975	17.72	5,820	Dec. 3	11.92	4,170	<2
		Oakland, Miss.				June 24, 1980	^b 14.93	7,600	Dec. 26	14.38	6,870	5
									Apr. 5	7.62	1,420	<2
									Apr. 8	9.20	2,310	<2
									May 19	13.99	6,500	4
320	07280340	South Fork Tillatoba	53.9	189.37	1976-	June 24, 1980	23.47	11,000	Dec. 4	17.25	4,950	<2
-20	07200540	Creek near Charles-	33.7	107.57	1770-	June 24, 1900	23.47	11,000	Dec. 26	23.96	11,900	7
		ton, Miss.										
		1011, 172,001							Apr. 5	12.22	2,980	<2
									Apr. 8	10.95	2,450	<2
									May 19	21.73	8,640	3
21	07282000	Yalobusha River at Cal-	305	226.06	1949–	Mar. 29, 1951	25.22	23,000	Dec. 4	21.80	20,000	7
		houn City, Miss.				Mar. 16, 1973	24.58	52,100	Dec. 26	25.75	70,100	>100
									Apr. 6	20.65	14,000	3
									Apr. 8	21.09	16,100	4
									May 19	22.04	31,800	20
22	07283000	Skuna River at Bruce,	254	228.75	1948-	Mar. 21, 1955	34.11	61,400	Dec. 4	22.60	18,900	^c 7
		Miss.				,		•	Dec. 26	29.81	39,300	^c 30
									Apr. 6	^b 26.00	27,500	c15
									Apr. 8	21.40	16,300	c ₄
									May 19	27.49	31,900	°20
323	07283490	Caney Creek near Cof-	1.97		1955-	Index 1 1057	10.00	1 560	Dec. 25		840	²⁰ ₂
23	07263490	feeville, Miss.	1.97		1935-	July 1,1957	10.00	1,560		8.94		
24	07205700	. ,			1000	Sept. 20, 1958	10.21	854	May 18	10.03	1,370	c ₁₀
24	07285700	Long Creek near Cas-	1.64		1965-	Aug. 8, 1965	11.58	1,580	Dec. 3	9.63	1,000	°2
		cilla, Miss.							Dec. 26	10.99	1,440	^c 7
25	07286520	Big Sand Creek trib. near North Carroll- ton, Miss.	.09		1965–	Dec. 30, 1969	7.25	68	Dec. 26 May 18	6.27 5.74	56 47	c<2
26	07287350	Fannegusha Creek near	100	135.74	1947,	Apr. 11, 1957	b _{25.1}		Dec. 26	^b 20.82	9,660	^c 2
		Tchula, Miss.		** *		•		22 000				
					1951, 1953, 1955–62, 1965–	Apr. 26, 1970	^b 24.54	23,000	May 19	23.49	15,600	c ₅

Table 3. Summary of peak stages and discharges at 491 streamflow gaging sites in the study area—Continued

				Datum of						Flood of	December 198	n .
Site	Permanent station	Stream name and	Drainage area	Datum of gage above	Period of	Previous	flood of r	ecord	Janua		pril 1983, or N	
no.	number	location	(mi ²)	NGVD of 1929 (feet)	record	Date	Gage height (feet)	Discharge (ft ³ /s)	Date	Gage height (feet)	Discharge (ft ³ /s)	Recurrence interval (years)
				MISSISSI	PPI RIVE	R MAIN STEM						
327	07289000	Mississippi River at	f _{1,140,500}	46.22	1871–	May 4, 1927	56.0		Dec. 19	39.7	1,396,000	<2
J 2 ,	07207000	Vicksburg, Miss.	1,140,500	10.22	10/1	Feb. 17, 1937		2,080,000	Jan. 9	41.8	1,402,000	3
		,				Feb. 21, 1937	53.2		May 27	49.3	1,789,000	18
				DIC D	I ACE DI		55. 2		111ay 27	17.5	1,707,000	10
				ыс в		VER BASIN						
328	07289265	Hays Creek trib. no. 1	14		1960–	Mar. 16, 1973	26.68		Dec. 26	26.09	1,920	
220	07200250	near Vaiden, Miss.	005	204.74	1007	Mar. 4, 1977	25.69	1,750	May 19	26.47	2,100	
329	07289350	Big Black River at West, Miss.	985	294.74	1937–	Mar. 16, 1973	25.11	57,700	Dec. 6 Dec. 27	21.63 23.34	23,800 38,300	2 6
		west, miss.							Apr. 8	21.15	20,500	<2
									May 21	26.08	71,200	50
330	07289395	Sharkey Creek trib. near	.30		1967-	Jan. 20, 1979	9.53	300	Dec. 3	7.61	180	°4
330	0/20/3/3	West, Miss.	.50		1907-	Jan. 20, 1777	9.55	300	May 19	7.48	165	c ₃
331	07289600	Tilda Bogue near Can-	24.4		1948-	Apr. 29, 1953	19.00	8,800	Dec. 4	17.85	2,600	c ₂
001	0.20,000	ton, Miss.	~		2710	Aug. 1, 1975	19.16	8,300	Dec. 25	19.12		
								-,	May 19	19.44		
332	07289641	Panther Creek trib, near	.07		1965-	Mar. 10, 1973	7.42	140	Dec. 3	4.40	59	c<2
		Flora, Miss.				·			May 19	6.01	110	^c 10
333	07290000	Big Black River near	2,810	84.93	1936-	Apr. 16, 1979	40.56	83,300	Dec. 8	38.71	51,800	^c 15
		Bovina, Miss.				-			Jan. 1	39.10	58,300	^c 25
									Apr. 9	38.79	53,100	c15
									May 24	40.77	92,300	c>100
334	07290005	Clear Creek near Bov-	^f 36	113.2	1953-	Apr. 13, 1969	30.03	21,000	Dec. 3	25.21	6,010	c ₂
		ina, Miss.							Apr. 13	28.28	12,800	c ₉
									May 20	26.39	7,770	c3
				BAY	OU PIER	RE BASIN						
335	07290525	Whiteoak Creek trib.	1.36		1965	Nov. 28, 1964	11.26	1,230	Dec. 26	6.78	300	c<2
		near Utica, Miss.							Apr. 6	9.48	876	c ₉
									May 20	8.71	710	^c 4
336	07290650	Bayou Pierre near Wil-	653	82.34	1959-	Apr. 13, 1980	28.16	63,800	Dec. 4	26.10	37,200	4
		lows, Miss.							Dec. 27	23.93	23,800	<2
									Apr. 7	29.36	88,000	70
									May 22	^b 27.7	56,600	15
337	07290690	Clarks Creek near Patti-	77.4	113.84	1961–	Apr. 12, 1980	27.90	31,000		18.43	8,860	2
220	07700030	son, Miss.			1066			1 450	Apr. 6	21.95	12,900	4 C - 2
338	07290830	Little Creek near	1.71		1966~	Mar. 31, 1976	13.80	1,470	Dec. 3	7.72	505	c<2 c3
		Fayette, Miss.							Dec. 26	9.85	805	°4
									Apr. 6 May 20	11.02 10.26	1,000 870	c ₃
339	07290870	Coles Creek near Fay-	257	67.3	1961-	Apr. 12, 1974	31.96	75,000	Dec. 4	24.13	22,500	<2
337	0/2/00/0	ette, Miss.	231	07.3	1701-	Apr. 12, 1974	31.70	75,000	Dec. 26	23.80	21,600	<2
		, -							Apr. 6	30.04	45,300	4
									May 21	23.76	21,300	<2
				HOMOG	снітто і	RIVER BASIN			J -		- ,	
340	07291000	Homochitto River at	180	217.22		Apr. 13, 1974	19.53	55,400	Dec. 4	13.07	22,100	c3
J+U	01271000	Eddiceton, Miss.	100	211.22	1739-	Apr. 13, 19/4	17.33	22,400	Dec. 4 Dec. 26	8.14	9,840	c<2
									Apr. 6	16.43	35,200	c ₁₅
									May 21	9.89	13,600	c<2
341	07291250	McCall Creek near	60		1952-	Apr. 13, 1974	92.70	23,000	•	86.46	11,700	c ₅
		Lucien, Miss.				. ,		. ,	Dec. 26	83.99	8,150	c ₂
									Apr. 6	b89.08	15,800	^c 10
342	07292500	Homochitto River at	750	94.39	1949-	Mar. 31, 1949	37.80		Dec. 4	^b 22.47	85,500	^c 4
		Rosetta, Miss.				May 4, 1953	36.03	59,400	Dec. 26	17.61	32,200	c<2
						Apr. 13, 1974	28.60	150,000	Apr. 6	22.74	94,900	^c 5
										^b 23.30		
									May 22	19.24	47,200	c<2
				BUF	ALO RIV	ER BASIN						
		D 44 D1					b			40.45		C.
343	07295000	Buffalo River near	182	94.52	1942–	Mar. 25, 1973	^b 22.3	65,000	Dec. 3	18.17	34,000	^c 4
343	07295000	Woodville, Miss.	182	94.52	1942–	Mar. 25, 1973	22.3	65,000	Dec. 3 Dec. 26	16.34	34,000 24,200	c ₂

Table 3. Summary of peak stages and discharges at 491 streamflow gaging sites in the study area—Continued

				Datu f				F	lood data	Flood -45)	an
Site	Permanent station	Stream name and	Drainage area	Datum of gage above	Period of	Previous		ecord	Janua	ry 1983, Ap	December 198 oril 1983, or <i>l</i>	May 1983
no.	number	location	(mi ²)	NGVD of 1929 (feet)	record	Date	Gage height (feet)	Discharge (ft ³ /s)	Date	Gage height (feet)	Discharge (ft ³ /s)	Recurrence interval (years)
				MISSISS	IPPI RIVEF	MAIN STEM						
344	07295100	Mississippi River at Tar- bert Landing, Miss.	1,124,900		1932–	Feb. 19, 1937	58.09	1,977,000	Jan. 11	53.44	1,195,000	<2
				R	ED RIVER	BASIN						
345	07337000	Red River at Index, Ark.	48,030	246.87	1937–	Feb. 23, 1938	34.25	297,000	Dec. 4	16.33	54,000	х
346	07340000	Little River near Hora- tio, Ark.	2,662	272.89	1915, 1930–	August 1915	38.0	124,000	Dec. 3	30.20	37,200	х
347	07340200	West Flat Creek near Foreman, Ark.	10.7		1962–81, 1983	Jan. 30, 1969	12.40	3,400	Dec. 2	12.97	3,800	15
348	07340300	Cossatot River near Vandervoort, Ark.	89.6	771.88	1961, 1968–	May 6, 1961	23.0	48,000	Dec. 2	19.50	32,000	8
349	07340500	Cossatot River near DeQueen, Ark.	360	335.48	1938–	May 13, 1968	22.60	122,000		17.21	21,800	X
350	07341000	Saline River near Dierks, Ark.	121	353.09	1920, 1939–	May 13, 1968	22.95	59,200	Dec. 2	13.95	6,730	x
351	07341200	Saline River near Lockes-	256	300.00	1964–	May 7, 1961	25.6		Dec. 3	20.52	59,600	х
352	07348700	burg, Ark. Bayou Dorcheat near	605	173.91	1958	May 14, 1968 Apr. 28, 1958	20.86 22.79	64,700 36,400	Dec. 29	16.68	10,500	4
353	07349500	Springhill, La. Bodcau Bayou near	546	173.91	1939-	May 2, 1958	25.14	,	Dec. 29	18.87	5,620	3
		Sarepta, La.					h					
354	07351600	Bayou Pierre near Grand Bayou, La.	661	101.13	1933, 1978–	August 1933 Jan. 22, 1979	^b 35.4 26.93	7,260	Dec. 29	26.78	7,190	
355	07351980	Saline Bayou near Bien- ville, La.	54.9		1966–83	Jan. 21, 1979	44.74		Dec. 27	45.25	3,870	20
356	07352000	Saline Bayou near Lucky, La.	154	152.65	1940-	Jan. 1, 1945	12.90	13,500	Dec. 28	10.58	7,230	10
357	07352800	Grand Bayou near Cou- shatta, La.	93.9	136.26	1957–77, 1979–	Sept. 21, 1958	11.47	7,920	Dec. 28	9.84	3,270	5
358	07353990	Kisatchie Bayou at Kisatchie, La.	37.3	194.97	1966-	Apr. 8, 1968	25.44	14,200	Dec. 27	26.13	17,800	20
359	07354100	Kisatchie Bayou at Lotus, La.	140	123.57	1939, 1979–	Mar. 30, 1939 Feb. 24, 1979	19.3 16.64	 3,160	Dec. 27	18.17	33,700	
360	07355500	Red River at Alexan- dria, La.	67,500	44.26	1879–	Apr. 17, 1945	45.23	233,000	Jan. 3	30.0	129,000	3
361	07355900	Big Fork trib. at Big Fork, Ark.	.17		1964–83	Apr. 22, 1974	9.36	103	Dec. 3	14.25	225	50
362	07356000	Ouachita River near Mount Ida, Ark.	414	655.14	1942–	Dec. 10, 1971	38.62	,	Dec. 3	^b 39.78	102,000	>100
363	07356700	Barnes Branch near Mount Ida, Ark.	1.85	602.86	1983	Dec. 10, 1971	^b 14.50		Dec. 3	^b 16.79	3,070	>100
364	07359500	Ouachita River near Malvern, Ark.	1,585	228.05	1903–04, 1923–		30.3	140,000		^b 27.06	125,000	х
365	07361500	Antoine River at Antoine, Ark.	178	229.33	1905, 1945, 1951–	May 1905	29.7	40,000	Dec. 3	28.43	26,900	20
366	07362000	Ouachita River at Cam- den, Ark.	5,357	71.69	1882, 1886–	Apr. 3, 1945	44.82	243,000	Dec. 7	38.06	95,700	х
367	07362100	Smackover Creek near Smackover, Ark.	385	97.56	1939-	June 8, 1974	24.97	52,700	Dec. 28	19.08	13,500	6
368	07362500	Moro Creek near Fordyce, Ark.	240	160.63	1938, 1952–	May 2, 1958	16.47	26,800	Dec. 28	15.95	18,200	22
369	07363000	Saline River at Benton, Ark.	550	260.91	1927, 1938–	April 1927	30.5	110,000	Dec. 4	26.37	64,700	10
370	07363200	Saline River near Sheri- dan, Ark.	1,123	152.86	1938–	Feb. 1, 1969	22.42	71,000	Dec. 6	19.43	38,900	4
371	07363300	Hurricane Creek near Sheridan, Ark.	204	200.00	1960-	June 27, 1960	18.55	52,300	Dec. 28	15.64	11,800	3
372	07363450	Varnell Creek near Rison, Ark.	.28	212.55	1964–	Aug. 31, 1974	8.14		Dec. 28	8.71	214	15
373	07363500	Saline River near Rye, Ark.	2,102	97.06	1927, 1938–	May 18, 1968	31.40	74,500	Dec. 31	27.51	41,000	5
374	07364070	Bear Creek near Strong, Ark.	5.62		1963–83	June 8, 1974	15.27	890	Dec. 27	15.35	950	16

Table 3. Summary of peak stages and discharges at 491 streamflow gaging sites in the study area—Continued

				_				ı	Flood data			
Site	Permanent	Stream	Drainage	Datum of gage above	Period	Previous	flood of re	cord	lanua		ecember 19 ril 1983, or <i>l</i>	
no.	station number	name and location	area (mi ²)	NGVD of 1929 (feet)	of record	Date	Gage height (feet)	Discharge (ft ³ /s)	Date	Gage height (feet)	Discharge (ft ³ /s)	Recurrence interval (years)
				RED	RIVER BAS	SIN—Continued						•
375	07364110	Nevins Creek trib. near Pine Bluff, Ark.	0.75	229.19	1961-	May 4, 1979	^b 8.67	408	Dec. 27	8.78	418	25
376	07364150	Bayou Bartholomew near McGehee, Ark.	576	120.48	1930, 1932,	May 11, 1958	25.49	6,870	Jan. 2	22.24	4,460	6
377	07364200	Bayou Bartholomew	1,187	79.21	1939– 1958–	May 21, 1958	28.24		Jan. 2		6,710	9
378	07364740	near Jones, La. Bayou DeLoutre near	241		1966–83	Mar. 11, 1961 June 10, 1974	51.34	6,680 17,300	Jan. 5 Dec. 28	28.45 48.27	10,300	25
379	07364890	Farmerville, La. Bayou D'Arbonne near	254	^e 110	1980-	Apr. 14, 1980	13.87	3,500	Dec. 27	15.74	11,200	
380	07365800	Hico, La. Cornie Bayou near	180		1956–	June 8, 1974	17.50	65,000	Dec. 28	11.63	4,960	2
381	07366000	Three Creeks, Ark. Corney Bayou near Lil-	462	84.08	1941–83	Apr. 27, 1958	25.20	48,200	Dec. 28	16.07	8,700	3
382	07366200	lie, La. Little Corney Bayou near Lillie, La.	208	91.48	1956–	June 9, 1974	17.54	24,000	Dec. 28	10.72	6,370	5
383	07366350	Stowe Creek near Farm- erville, La.	f ₂₉	61.73	1954–68,	Feb. 10, 1966	47.61	8,240	Dec. 28	^b 49.90	12,800	60
384	07366403	Bayou Choudrant trib.	.54		1974–83 1966–	May 7, 1975	10.62	735	Dec. 27	9.90	573	20
385	07366420	near Tremont, La. Bayou Choudrant near	113	48.63	1966–	Feb. 10, 1966	44.72	9,190	Dec. 27	48.50	26,800	100
386	07367250	Calhoun, La. Guyton Creek near Eros,	8.76		1968	June 10, 1975	13.53	2,330	Dec. 27	14.38	2,770	35
387	07367300	La. North Cheniere Creek at	f ₃₈	41.63	1954–68,	Mar. 21, 1955	45.89	6,270	Dec. 27	46.29	7,620	50
388	07367600	Cheniere, La. Cypress Creek near	^f 16		1974–83 1954–68,	Apr. 12, 1974	48.83	8,820	Dec. 27	48.50	4,400	8
389	07367630	Vixen, La. Ouachita River at Columbia L&D near	15,630	23.88	1974–83 1976–	May 13, 1979	^{aa} 43.08	71,000	Jan. 10	^{aa} 44.77	79,700	
390	07368000	Riverton, La. Boeuf River near Girard, La.	^z 1,226	49.42	1927, 1939–	May 7, 1927 May 2, 1958	31.7	3,070	Dec. 29	18.30	2,150	3
391	07369000	Bayou Lafourche near	^z 361	37.08	1939-	May 6, 1958 May 2, 1958	21.51	26,800	Dec. 30		23,000	8
202	07260500	Crew Lake, La.	Zago	50.07	1027	Feb. 14, 1966	27.55		Jan. 2	29.32		
392	07369500	Tensas River at Tendal, La.	² 309	50.07	1927, 1936–	May 15, 1927 Nov. 19, 1948	34.02	4,610	Dec. 29	24.75	3,120	4
393	07369700	Bayou Macon near Kil-	^z 504	75.41	1958-	Dec. 4, 1982 May 5, 1958	26.34	4,740	Dec. 28	25.22	4,080	5
20.4	07270520	bourne, La.	71 0		1044 00	Mar. 17, 1973	26.73		D 07	10.66	14.600	50
394	07370530	Black Bayou at Kelly, La.	51.9		1966-83	Mar. 4, 1977	41.87	6,500	Dec. 27	42.66	14,600	50
395	07370575	Caney Creek near Chatham, La.	48.8		1966–83	Feb. 10, 1966 May 8, 1978	48.76 45.72	7,610	Dec. 27	45.73	14,700	60
396	07370600	Beacoup Creek near Cotton Plant, La.	127	104.87	1951–68, 1974–	May 17, 1953	13.18	13,400	Dec. 28	13.93	17,200	50
397	07370650	Flat Creek near Sikes, La.	41.5	122.27	1951–68, 1974–83	May 17, 1953	12.56		Dec. 27	13.28	11,200	20
398	07370660	Flat Creek near Olla, La.	103		1966–83	Apr. 12, 1974	50.98	17,500	Dec. 27	50.83	16,800	20
399	07370700	Beech Creek near Olla, La.	^f 58	51.90	1954–68, 1974–83	Apr. 12, 1974	46.78	23,900	Dec. 28	44.89	10,800	9
400	07370750	Chickasaw Creek near Olla, La.	47.6	64.22	1954–83	Feb. 10, 1966	43.22	10,400	Dec. 27	42.87	8,440	45
401	07370820	Dugdemona River near Quitman, La.	117	123.63	1965–83	Feb. 10, 1966	44.49	6,720	Dec. 27	47.29	14,000	90
402	07370840	Choctaw Creek near Hodge, La.	16.5	145.39	1966–83	Jan. 22,1979	44.77	2,980	Dec. 27	45.89	5,310	45
403	07370930	Cypress Bayou at Quit- man, La.	91.8	122.00	1966–83	Feb. 11, 1966	45.80	13,500	Dec. 27	47.74	21,700	50
404	07370980	Little Dugdemona River near Hodge, La.	^f 20		1965–83	May 7, 1978	46.87	3,140	Dec. 27	48.25	7,400	90
405	07371500	Dugdemona River near Jonesboro, La.	355	116.53	1939–	Jan. 1, 1945	19.87	30,600	Dec. 28	^b 21.20	41,500	>100

Table 3. Summary of peak stages and discharges at 491 streamflow gaging sites in the study area—Continued

				_					Flood dat			
Site	Permanent	Stream	Drainage	Datum of gage above	Period	Previous	flood of r	ecord	Janu		December 1982 pril 1983, or M	
no.	station number	name and location	area (mi ²)	NGVD of 1929 (feet)	of record	Date	Gage height (feet)	Discharge (ft ³ /s)	Date	Gage height (feet)	Discharge (ft ³ /s)	Recurrence interval (years)
				RED I	RIVER BAS	SIN—Continued						
406	07371600	Dugdemona River near Dodson, La.	412	0.00	1959–82	Feb. 11, 1966	121.15		Dec. 28	^b 124.14		
407	07372000	Dugdemona River near Winnfield, La.	654	81.14	1940–81	May 19, 1953	23.78	27,100	Dec. 28	^b 25.97		
408	07372050	Dugdemona River at Joyce, La.		.00					Dec. 28	^b 94.79		
409	07372110	Brushy Creek near Joyce, La.	^f 24	44.51	1965-	Apr. 12, 1974	47.63	14,800	Dec. 28	46.09	7,320	10
410	07372200	Little River near Roch- elle, La.	1,899	24.79	1958	Apr. 14, 1974	40.20	54,800	Dec. 29	^b 45.88	108,000	90
411	07372300	Bear Creek near Pack- ton, La.	f ₁₁	88.50	1954–68, 1974–83	Apr. 8, 1968	48.78	12,200	Dec. 27	48.60	10,600	30
412	07372900	Dyson Creek near Pol- lock, La.	f ₁₂		1965–83	July 23, 1969	47.87	5,420	Dec. 27	43.75	1,040	3
413	07373000	Big Creek near Pollock, La.	^f 51	76.69	1942-	Apr. 29, 1953	18.03	23,500	Dec. 26	14.18	6,740	5
414	07373250	Hemphill Creek near Nebo, La.	35.3	46.58	1979–	Feb. 24, 1979	10.99	6,000	Dec. 27	^b 14.20	13,600	
		,		THO	MPSON CI	REEK BASIN						
415	07373550	Moores Branch near Woodville, Miss.	.21		1955–	Mar. 24, 1973	9.90	455	Dec. 3 Apr. 5	5.26 6.57	220 309	°3 °15
		,		MISSIS	SIPPI RIVE	ER MAIN STEM	Ī		трт. 5	0.57	507	
416	07374000	Mississippi River at Baton Rouge, La.	1,125,810	.00	1871-	May 15, 1927 Apr. 16, 1945	47.28 ——	1,473,000	Jan. 13	37.3	ab1,070,000	- -
				MIS	SISSIPPI RI	VER DELTA		, , ,				
417	07374700	Tchefuncta River near Franklinton, La.	53.1	97.15	1949–68, 1975–83	Nov. 13, 1961	47.29	8,600	Apr. 5	51.04	26,900	>100
418	07375000	Tchefuncta River near Folsom, La.	95.5	62.11	1944–	May 3, 1953	22.26	17,000	Apr. 5	24.12	29,800	50
419	07375170	Bogue Falaya at Covington, La.	88.2	4.84	1964–83	Apr. 27, 1964	19.66	8,610	Apr. 8	23.58	12,700	30
420	07375222	Abita River north of Abita Springs, La.	46.1	.00	1966–	Mar. 29, 1980	24.07	4,750	Apr. 8	23.66	4,330	6
421	07375235	Tangipahoa River trib. near McComb, Miss.	2.71		1966-	Mar. 24, 1973	10.23	1,460	Dec. 3 Apr. 5	8.32 8.23	1,060 1,040	^c 10 ^c 10
422	07375300	Tangipahoa River near Kentwood, La.	^{ac} 296	180.30	1951–59, 1961–68,	Mar. 29, 1980	16.12	30,800	Apr. 6	17.20	43,300	70
423	07375307	Terry's Creek near	52.0		1974–83 1966–	May 23, 1974	14.33	18,900	Apr. 6	14.40	19,600	15
424	07375410	Kentwood, La. Tangipahoa River at Tangipahoa, La.	340	.00	1967–74,	May 23, 1974	169.34		Apr. 7	^b 170.88		
425	07375420	Tangipahoa River at Arcola, La.	381		1977–82 ad 1959–65,	May 23, 1974	26.67		Apr. 7	28.31		
426	07375463	Chappepeela Creek near Husser, La.	31.7		1967–82 1966–83	Mar. 25, 1973	27.71	9,020	Apr. 7	30.04	18,000	40
427	07375480	Chappepeela Creek southeast of	91.0		1964–83	Mar. 25, 1973	16.12	18,500	Apr. 7	18.69	30,800	30
428	07375500	Loranger, La. Tangipahoa River at Robert, La.	646	6.87	1921,	1921 May 2, 1052	^b 27.1		Apr. 7	^b 25.87	85,000	>100
429	07375800	Tickfaw River at Liver- pool, La.	89.7	204.44	1939 1956-	May 3, 1953 Apr. 22, 1977	23.13 12.18	50,500 —— 18,000	Apr. 6	13.30	32,000	60
430	07375960	Tickfaw River at Mont- pelier, La.	220	.00	1951–68, 1974–83	Mar. 29, 1980 May 23, 1974			Apr. 7	108.10	27,500	30
431	07376000	Tickfaw River at Holden, La.	247	19.15	1974–83 1941–	May 23, 1974	20.37	19,000	Apr. 7	21.04	22,400	35
432	07376290	Blood River near Springfield, La.	26.6	.00	1964–69, 1971–83	Apr. 17, 1967	17.99	2,190	Apr. 7	19.94	2,850	35
	07376500	Natalbany River at Bap-	79.5	11.28	1971–63	May 3, 1953	19.73	9,550		r20.80	9,810	35

Table 3. Summary of peak stages and discharges at 491 streamflow gaging sites in the study area—Continued

				D-1: - '					lood data	El= - 7 / -	Describ do	22
Site	Permanent station	Stream name and	Drainage area	Datum of gage above	ve of record	Previous	flood of r	ecord	Janua	ıry 1983, Ap	December 198 oril 1983, or N	May 1983
no.	number	location	(mi ²)	NGVD of 1929 (feet)		Date	Gage height (feet)	Discharge (ft ³ /s)	Date	Gage height (feet)	Discharge (ft ³ /s)	Recurrence interval (years)
				MISSISSI	PPI RIVER I	DELTA—Continu	ied					
434	07376520	Little Natalbany River at Albany, La.	40.6	4.28	1966–83	Apr. 15, 1967	30.95	7,950	Apr. 7	29.79	10,800	>100
435	07376760	CRS Draw near Liberty, Miss.	.80		1955, 1965–	June 8, 1975	11.81	993	Dec. 3 Apr. 5	7.78 7.94	445 476	^c 5 ^c 6
436	07377000	Amite River near Dar- lington, La.	580	145.81	1949–	Apr. 22, 1977	21.76	76,400	-	20.29	63,300	10
437	07377150	Amite River at Grange- ville, La.	741	.00	^{aa} 1951–63, 1964–83	Apr. 14, 1955	118.31	63,800	Apr. 7	111.29		
438	07377190	Sandy Creek southeast of Clinton, La.	17.2	172.56	1966–83	Apr. 22, 1977	14.96	7,310	Apr. 6	16.22	13,000	25
439	07377210	Sandy Creek at Pride, La.	69.9	72.87	1976–	Apr. 22, 1977	20.03	8,740	Apr. 6	21.31	11,800	
440	07377300	Amite River at Magno- lia, La.	884	.00	1949–83	Apr. 23, 1977	51.91	85,100	Apr. 8	50.97	75,700	30
441	07377400	Comite River near Clinton, La.	^{af} 112	.00	^{ae} 1949–65, 1969–	Apr. 22, 1977	180.11	27,600	Apr. 6	179.40		
442	07377500	Comite River near Olive Branch, La.	145	113.65	1943–	Mar. 18, 1961 Apr. 22, 1977	23.37	22,400	Apr. 6	19.70	19,800	10
443	07377700	Redwood Creek near Slaughter, La.	41.1	107.00	1966–	Apr. 22, 1977	18,60	4,160	Apr. 6	18.63	7,020	>100
444	07377750	Comite River near Zachary, La.	230	.00	1951–82	Apr. 22, 1977	89.95	23,700	Apr. 7	^b 88.30		
445	07377760	Comite River at Comite Drive, near Baton Rouge, La.		.00	1962-	Apr. 29, 1962	64.25		Apr. 7	65.87		
446	07377780	White Bayou at High- way 64, near Zachary, La.		.00	1962–75, 1977–	Apr. 29, 1962	92.04		Apr. 7	92.24		
447	07377782	White Bayou southeast of Zachary, La.	^f 45	65.00	1973-	Apr. 23, 1979	23.05	4,480	Apr. 6	23.24	4,730	15
448	07377840	White Bayou near Baton Rouge, La.		.00	1962-	Apr. 13, 1969	72.10		Apr. 7	^b 73.23		
449	07377842	White Bayou near Baker, La.		^e 60.00	1973-	Apr. 23, 1977	17.25	661	Apr. 7	16.78	888	25
450	07378000	Comite River near Comite, La.	^{ag} 284	23.85	1944–	May 19, 1953 Apr. 23, 1977	30.64	24,100	Apr. 7	29.72	37,000	>100
451	07378050	Comite River at Green- well Springs Road, near Baton Rouge, La.		.00	1962-	Apr. 22, 1977	47.05		Apr. 7	^b 49.42		
452	07378500	Amite River near Den- ham Springs, La.	^{ag} 1,280	.00	1921, 1939–	Apr. 23, 1977	41.08	110,000	Apr. 8	^b 41.50	112,000	50
453	07378510	Amite River at 4-H Camp, near Denham Springs, La.	f _{1,290}	.00	1946–75, 1977–83	Apr. 23, 1977	38.21		Apr. 8	^b 38.14		
454	07378710	Amite River near Baton Rouge, La.		.00	1968-79, 1981-	Apr. 23, 1977	28.39		Apr. 8	^b 29.23		
455	07380108	Bayou Manchac near Port Vincent, La.	153	.00	1972-	Apr. 23, 1977	17.38		Apr. 9	^b 18.85		
456	07380120	Amite River near Port Vincent, La.	1,596	.00	1955-73, 1976-	Apr. 24, 1977	12.87		Apr. 9	^b 14.65		
457	07381490	Atchafalaya River at Simmesport, La.		.00	1903-	May 16, 1927 May 12, 1973	59.13 54.43	ah781,000	Jan. 12	38.75	^{ah} 513,000	
458	07381800	Spring Creek near Glen- mora, La.	68.4	63.28	1953, 1954–	May 1953 Sept. 20, 1979	20.50 17.55	6,920	Dec. 26	17.57	7,570	30
459	07382000	Bayou Cocodrie near Clearwater, La.	240	39.57	1934– 1922–24, 1938–	May 18, 1953	26.72		Dec. 28	23.28	7,240	80
460	07382500	Bayou Courtableau at	^z 715	.00	1940,	July 12, 1940	30.30	0.400	Tom 11	20.07	¥6 200	0
461	07383500	Washington, La. Bayou Des Glaises at	^z 270	23.46	1947 1944	May 21, 1953 May 18, 1953	^y 35.29 22.68	9,490 6,340	Dec. 27	30.07 19.32	^y 6,280	9
462	07385500	Moreauville, La. Bayou Teche at Arnaud-	^{fZ} 1,530	.00	1949–	May 23, 1953	24.27	У л 63 0	Jan. 9 Dec. 26	 ^у 21.86	2,610 2,700	2

Table 3. Summary of peak stages and discharges at 491 streamflow gaging sites in the study area—Continued

									lood data	=1 . 7=		
Site	Permanent station	Stream name and	Drainage area	Datum of gage above	Period of	Previous f	_	ecord	Flood of December 1982, January 1983, April 1983, or May 1983			
no.	number	location	(mi ²)	NGVD of 1929 (feet)	record	Date	Gage height (feet)	Discharge (ft ³ /s)	Date	Gage height (feet)	Discharge (ft ³ /s)	Recurrence interval (years)
				MISSISS	IPPI RIVER	DELTA—Continu	ued					
463	07385700	Bayou Teche near St. Martinville, La.		0.78	1927, 1960–	May 27, 1927 Oct. 4, 1964 Sept. 5, 1973	24.30 15.59	 3,970	Dec. 26	12.74	^y 2,290	
				ME	RMENTAU :	RIVER BASIN		, , , , , ,				
464	08010000	Bayou Des Cannes near Eunice, La.	131	14.84	1939–	May 20, 1953	22.36	11,900	Dec. 28	20.16	7,460	7
465	08011800	Castor Creek near Ober- lin, La.	43.9	.00	1964-	Sept. 20, 1979	49.93	8,560	Dec. 28	47.81	4,510	6
466	08012000	Bayou Nezpique near Basile, La.	527	3.39	1939–	May 20, 1953	34.39	35,800	Dec. 30	26.22	15,500	10
		, <u></u> .		CA	LCASIEU R	IVER BASIN						
467	08012650	Floctaw Creek near Lacamp, La.	18.7	218.96	1951–68, 1974–83	May 18, 1953	19.00	28,800	Dec. 28	15.14	3,640	4
468	08013000	Calcasieu River near Glenmora, La.	499	110.77	1944	May 19, 1953	21.55	59,900	Dec. 28	20.40	46,900	40
469	08013500	Calcasieu River near Oberlin, La.	753	39.43	1923–24, 1939–	May 19, 1953	26.53	72,800	Dec. 30	24.33	51,000	50
470	08013700	Drakes Creek near Pit- kin, La.	22.1	170.62	1954–68, 1974–83	Aug. 4, 1955	17.41	7,800	Dec. 28	17.34	7,440	25
471	08013800	Little Sixmile Creek near Pitkin, La.	10.4		1954–83	Oct. 11, 1977	16.70	4,200	Dec. 27	14.38	1,570	3
472	08013950	Big Brushy Creek near Pitkin, La.	34.4	116.10	1965–83	Nov. 12, 1966	20.70	13,000	Dec. 27	17.54	3,900	5
473	08014000	Sixmile Creek near Sug- artown, La.	171	82.16	^{ai} 1957–65, 1966–83	Nov. 12, 1966	17.66	21,600	Dec. 27	17.52	20,700	45
474	08014200	Tenmile Creek near Elizabeth, La.	94.2	94.38	^{ai} 1950–65, 1966–	May 18, 1953	21.33	31,900	Dec. 27	17.61	11,700	15
475	08014500	Whisky Chitto Creek near Oberlin, La.	510	46.24	1886, 1939–	June 1886 May 18, 1953	^b 25.7 ^b 32.8	144,000	Dec. 28	^b 25.67	45,100	30
476	08014600	Flat Creek near DeRidder, La.	26.3	132.38	1964–83	Mar. 25, 1973	13.42	7,240	Dec. 27	13.79	8,450	35
477	08014800	Bundick Creek near DeRidder, La.	120	113.75	1957–79, 1983	Mar. 25, 1973	21.71	16,800	Dec. 27	b21.88	18,100	20
478	08015200	Dry Creek at Dry Creek, La.	42.7	53.05	1954–68, 1975–	Sept. 20, 1979	24.60	7,300	Dec. 27	⁶ 24.66	7,430	15
479	08015500	Calcasieu River near Kinder, La.	1,700	11.95	1923–24, 1939–57, 1962–	May 19, 1953	32.00	182,000	Dec. 29	26.22	100,000	50
480	08016400	Beckwith Creek near DeQuincy, La.	148	25.29	1946–	May 21, 1955	24.45	13,800	Dec. 27	23.71	15,900	80
481	08016500	Hickory Branch near Longville, La.	34.9	77.78	1953–68, 1977–83	May 20, 1955	21.38	10,200	Dec. 27	19.40	5,660	7
482	08016600	Hickory Branch at Ker- nan, La.	82.2	25.10	^{ai} 1946–57, 1958–83	May 20, 1955	27.83	11,400	Dec. 27	28.60	12,900	30
483	08016800	Bear Head Creek near Starks, La.	177	16.34	1954–	May 18, 1980	17.70	11,200	Dec. 28	18.32	19,100	>100
				S	SABINE RIV	ER BASIN						
484	08025500	Bayou Toro near Toro, La.	148	138.00	1956–	Apr. 9, 1968	25.73	31,200	Dec. 28	22.97	14,100	10
485	08025850	Pearl Creek at Burr Ferry, La.	9.66		1967-	Apr. 12, 1980	9.74	1,650	Dec. 27	10.77	2,150	30
186	08026200	Red Bank Creek at Evans, La.	17.2	192.60	1953, 1966–83	May 1953 Apr. 12, 1980	21.07 20.60	4,860 4,200	Dec. 27	21.95	6,010	20
487	08026700	West Anacoco Creek near Hornbeck, La.	22.2	260.92	1950–68, 1974–83	Apr. 9, 1968	18.48	7,930	Dec. 27	17.82	6,910	10
188	08027550	Prairie Creek near Lees- ville, La.	40.0	189.08	1949–68, 1974–83	Apr. 29, 1953	47.68	28,000	Dec. 27	48.11	34,200	50
189	08028000	Bayou Anacoco near Rosepine, La.	365	118.09	1952–	May 19, 1953	28.38	64,300	Dec. 28	^b 27.80	58,600	30
190	08028700	Hoosier Creek near Merryville, La.	13.1	60.53	1956–81	Mar. 24, 1973	12.86	3,550	Dec. 28	b13.12	3,860	90
191	08029700	Brushy Creek at Ban- croft, La.	25.9	41.31	1954-68, 1974-	Sept. 21, 1958 May 17, 1980	16.97 16.92	3,880	Dec. 27	18.52	8,440	50

Table 3. Summary of peak stages and discharges at 491 streamflow gaging sites in the study area—Continued

^aAt site 0.4 mi upstream at different datum.

^bFrom floodmark.

^cColson and Hudson (1976).

^dFrom regional relations.

^eAltitude obtained from topographic map.

^fApproximately.

gDischarge estimated.

^hAt site 3.5 mi downstream at different datum.

ⁱAt site 0.2 mi upstream at different datum.

^jRunoff from 1.98 mi² impounded.

kAt site 0.3 mi downstream at different datum, prior to construction of impoundment.

^mRegulated byRoss R. Barnett Reservoir, 15 mi upstream.

ⁿPossible minor regulation by Ross R. Barnett Reservoir, 15 mi upstream.

^pDoes not include discharge over highway.

^qAt site 0.2 mi downstream at same datum.

Observed at crest.

^sAt former site and datum.

^tGage height affected by ice.

^uBefore Mar. 31, 1981, gage located at site 1.4 mi upstream at same datum.

^vDetermined by indirect measurement.

WIndirect measurement made at site 14 mi downstream from gaging station. Drainage area at this site is 603 mi².

^xNot determined because of regulation.

^yOccurred on following day.

^zInterchange of flow between basins.

^{aa}Tailwater gage height.

^{ab}Discharge measurement.

acIncluding Terry's Creek.

^{ad}Different datum than present; records not comparable.

^{ae}Operated as a crest-stage partial-record station.

^{af}Including Pretty Creek.

^{ag}Since 1957, considerable flow from 46 mi² diverted from basin.

^{ah}Flow consists of that from Red River and controlled diversion from the Mississippi River via Old River Control Structure.

^{ai}Operated as a continuous-record station.

 Table 4. Flood-crest elevations on seven rivers in four river basins of the study area in early December 1982

Stream and location	Distance upstream from mouth (miles)	Elevation abov NGVD of 1929 (feet)
ILLINOIS RIV	ER BASIN	(
es Plaines River (Illinois Waterway)	285.8	539.1
At Brandon Road Lock and Dam, Upper	285.8	512.4
At Brandon Road Lock and Dam, Lower	285.6	511.8
	281.4	509.7
At I–55	278.2	508.3
At Jacks Marina, Joliet Yacht Club	273.6	509.1
inois River	273.0	307.1
At Dresden Lock and Dam, Upper	271.4	509.2
At Dresden Lock and Dam, Lower	271.4	505.3
Above E.U.&E. Railroad Bridge	270.8	507.3
Below E.U.&E. Railroad Bridge	270.6	503.7
Above Morris Highway Bridge	263.9	503.5
		501.9
Below Morris Highway Bridge	263.5	501.2
A D 10 T 12	263.1	
At Bell's Landing	259.2	500.9
	256.0	497.8
	254.1	495.7
At C & R Railroad Bridge	254.0	495.7
At Seneca Shipyard	253.6	495.4
At Seneca Highway Bridge	252.8	494.9
	252.6	495.0
	248.7	489.2
At Marseilles Dam	247.0	485.0
At Marseilles Lock, Upper	244.6	479.1
At Marseilles Lock, Lower	244.6	474.4
At Ottawa Highway Bridge	239.7	470.6
At C.B. & O. Railroad Bridge	239.5	470.1
-	239.3	469.9
	236.1	467.6
	234.0	466.5
At Starved Rock Lock and Dam, Upper	231.0	466.1
At Starved Rock Lock and Dam, Lower	231.0	464.7
At Starved Rock Lock and Dam, Lower	230.5	464.6
	230.1	463.6
A (Y - C - 11 - T11	229.5	463.4
At La Salle, Ill	224.7	462.3
	223.1	461.9
	218.9	459.3
At Spring Valley, Ill	214.45	459.6
	207.5	457.6
	202.0	457.2
At Henry, Ill	196.1	457.0
	189.2	459.8
	189.0	458.8
	185.5	456.2
	182.0	460.1
	181.7	459.2
	176.6	456.1
	171.3	455.7
	167.6	455.3
	166.1	455.7
	162.1	455.1
	161.8	455.1
	158.1	454.9

Table 4. Flood-crest elevations on seven rivers in four river basins of the study area in early December 1982—Continued

Stream and location	Distance upstream from mouth (miles)	Elevation above NGVD of 1929 (feet)
ILLINOIS RIVER BASIN—C	Continued	(-2-2)
At Peoria Lock and Dam, Upper	157.7	454.6
At Peoria Lock and Dam, Lower	157.7	452.9
At Pekin, Ill	152.8	454.1
At Kingston, Ill	145.5	453.0
3 ,	140.2	450.9
At Copperas Creek	136.8	450.5
••	134.0	450.6
	131.6	450.6
	124.5	449.5
At Havana, Ill.	119.4	449.8
	115.8	449.0
	111.0	447.8
	104.7	449.6
	100.7	448.2
	97.3	448.0
	91.7	448.1
At Beardstown, Ill.	88.9	447.6
,	88.7	447.3
	88.1	447.2
	87.4	447. 1
At LaGrange Lock and Dam, Upper	80.2	445.9
At LaGrange Lock and Dam, Lower	80.2	^a 445.9
, , , , , , , , , , , , , , , , , , , ,	70.8	^a 444.4
	61.3	^a 442.3
	56.0	^a 441.0
	43.2	^a 437.4
	21.6	^a 433.7
MERAMEC RIVER BAS	SIN	
eramec River		
At Burlington Northern RR near Steelville, Mo. (gaging		
station 07013000)	149.4	707.2
	148.5	688.8
	134.0	661.5
At Onondaga Cave State Park, Mo	131.6	652.2
At county highway N, Mo	126.4	638.9
	121.2	623.7
At Sappingten Bridge near Sullivan, Mo. (gaging station		
07014500)	117.0	614.2
At Missouri State Highway 185	111.8	602.6
	106.1	584.9
	104.0	579.0
	98.7	563.8
	94.3	549.3
	91.8	546.1
	88.1	536.3
	84.3	527.3
At Missouri State Highway 30–47	82.6	524.3
- ·	75.9	511.2
	71.0	496.8

Table 4. Flood-crest elevations on seven rivers in four river basins of the study area in early December 1982—Continued

Stream and location	Distance upstream from mouth (miles)	Elevation abov NGVD of 192' (feet)
MERAMEC RIVER BASIN—	Continued	(icci)
At mouth of Bourbeuse River	66.3	491.7
At county highway O	62.1	485.9
7. county ingrivity O	54.0	471.1
At county highway F, Mo	50.5	469.9
At county ingriway 1, wo	38.5	451.6
At I-44 near Eureka, Mo. (gaging station 07019000)	34.1	447.1
The Total Europa, 1910. (gaging station 07017000)	22.1	432.5
	15.55	421.8
	10.15	420.0
At U.S. Highway 61–67, Mo	6.05	416.65
74. 0.0. Highway 01–07, 140.	4.90	416.65
At Missouri State Highway 231	2.05	412.1
ourbeuse River	2.03	412.1
At county highway H, Mo	87.5	684.4
	87.0	682.9
	84.2	678.6
	83.7	674.8
At county highway B near Spring Bluff, Mo. (gaging station	03.7	074.0
07016000)	79.5	677.6
0/010000)	77.0	663.0
	75.3	656.9
	73.3	649.6
	64.8	634.6
At Missouri State Highway 185	57.4	619.1
At Missouri State Highway 103	35.5	568.0
	31.0	560.0
	24.0	537.2
	21.3	534.2
	16.5	526.6
At U.S. Highway 50 at Union, Mo. (gaging station	10.5	320.0
07016500)	15.6	522.4
At I-44	6.5	503.3
At mouth of Meramec River	0	491.7
WHITE RIVER BASIN	I	
ffalo River	•	
At Boxley	128.4	1119.97
Near Ponca	122.8	1022.30
At Steel Creek.	120.8	989.57
At Kyles Landing	113.4	900.36
At Ozark		
Near Pruitt	103.3 101.6	812.12
	94.7	800.37 767.83
Near Hasty	91.0	751.67
At Mt. Hower	83.8	731.67 706.55
At Mt. Hersey At Woolum	75.2	669.03
Near St. Joe (gaging station 07056000)	58.2	614.10
Near Gilbert	53.7	604.28
At Maumee	41.8	562.42 537.40
	32.5	537.40
At Highway 14		500 41
	30.9 24.4	529.41 507.78

Table 4. Flood-crest elevations on seven rivers in four river basins of the study area in early December 1982—Continued

Stream and location	Distance upstream from mouth (miles)	Elevation above NGVD of 1929 (feet)	
WHITE RIVER BASIN—Co	ontinued		
White River			
At Cotter, Ark	408.1	417.51	
At Calico, Ark.(gaging station 07060500)	359.1	357.52	
At Batesville, Ark. (gaging station 07061000)	300.1	266.99	
At Newport, Ark. (gaging station 07074500)	257.6	228.09	
At Augusta, Ark	206.2	208.16	
At Georgetown, Ark	173.2	198.95	
At Clarendon, Ark	99.1	172.51	
At St. Charles, Ark	57.0	160.55	
ARKANSAS RIVER BA	ASIN		
Arkansas River			
At Lock and Dam 13 near Van Buren, Ark. (gaging station			
07250550)	308.9	382.96	
At Lock and Dam 12 (Ozark-Jetta Taylor)	272.9	355.85	
At Lock and Dam 10 (Dardenelle)	221.6	321.00	
At Dardenelle, Ark. (gaging station 07258000)	219.6	320.18	
At Lock and Dam 9	193.0	296.45	
At Lock and Dam 8 (Toad Suck Ferry)	172.0	278.60	
At Lock and Dam 7 (Murray) at Little Rock, Ark. (gaging			
station 07263450)	141.5	253.12	
At Lock and Dam 6 (D.D. Terry)	124.2	235.76	
At Lock and Dam 5	102.4	216.32	
At Lock and Dam 4	82.1	198.40	
At Lock and Dam 3	66.3	186.64	
At Lock and Dam 2	29.4	169.29	

Table 5. Flood-crest elevations on two tributaries in the Mississippi River Delta in late December 1982

Stream and location	Gaging station	Distance upstream from mouth (miles)	Elevation above NGVD of 1929 (feet)								
RED RIVER BASIN											
Dugdemona River											
At Louisiana State Highway 155 near Quitman, La	07370820	68.8	170.92								
At Louisiana State Highway 4 near Jonesboro, La	07371500	55.4	137.73								
At Louisiana State Highway 126 near Dodson, La	07371600	47.8	1224.14								
At Louisiana State Highway 167 near Winnfield, La	07372000	30.6	107.11								
At Louisiana State Highway 34 near Joyce, La	07372050	24.3	94.79								
CALCASI	EU RIVER BASIN										
Calcasieu River											
At Louisiana State Highway 113 near Glenmora, La	08013000	103.2	131.17								
At Louisiana State Highway 26 near Oberlin, La	08013500	64.7	63.76								
At Louisiana State Highway 190 near Kinder, La	08015500	50.1	38.17								

Table 6. Summary of rainfall and stage increases at 11 locks and dams on the Arkansas River upstream to Fort Smith, Ark., in November and December 1982

	November	26–29, 1982	December	r 2–6, 1982	December 24-28, 1982		
Lock and dam no.	Rainfall at dam (inches)	Approximate stage increase (feet)	Rainfall at dam (inches)	Approximate stage increase (feet)	Rainfall at dam (inches)	Approximate stage increase (feet)	
2	2.52	0	3.01	7.2	7.2	0.4	
3	1.28	0	1.33	7.1	5.58	0.4	
4	1.95	0	2.54	3.7	6.21	0	
5	1.67	0	2.80	6.4	7.85	0.4	
6	1.80	0.9	1.72	6.4	6.45	0.5	
(D.D. Terry)							
7	2.70	0.2	4.24	5.7	5.88	0	
(Murray)							
8	4.05	0.7	6.37	15.9	3.49	0	
(Toad Suck Ferry)							
9	4.47	0.6	11.20	12.1	2.34	1.2	
10	4.03	0.5	11.60	1.1	2.82	0.4	
(Dardenelle)							
12	3.00	1.3	6.50	0	5.44	0.2	
(Ozark-Jetta Taylor)							
13	2.87	0.5	4.78	1.22	2.14	0	

Table 7. Summary of elevations, contents, and rainfall at two lakes on tributaries to the Arkansas River in December 1982 [One cubic foot per second per day (ft³/s/d) is equivalent to 1.9835 acre-feet; measurements recorded at 2400 hours central standard time; maximum elevation on December 7 at Blue Mountain Lake, 407.57 ft; from U.S. Army Corps of Engineers, May 1983]

		ie Mountain Lake	(Petit Jean River)		Nimrod Lake (rourche River)		
Day	Elevation above NGVD of 1929 (feet)	Contents (ft ³ /s/d)	Change in storage (ft ³ /s/d)	Rainfall at dam (inches)	Elevation above NGVD of 1929 (feet)	Contents (ft ³ /s/d)	Change in storage (ft ³ /s/d)	Rainfal at dam (inches
					(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
1	384.40	13,040	-401	0.00	347.85	28,083	-3,133	0.00
2	387.87	18,681	5,641	.17	352.20	42,132	14,049	.17
3	402.60	55,823	37,142	8.25	365.60	109,919	67,787	10.40
4	406.57	70,743	14,920	.44	373.52	174,284	64,365	.00
5	407.30	73,724	2,981	.03	373.98	178,600	4,316	.05
6	407.53	74,664	940	.00	374.08	179,550	950	.00
		,						
7	407.53	74,664	0	.00	373.92	178,037	-1,513	.00.
8	407.14	73,071	-1,593	.00	373.71	176,067	-1,970	.00.
9	406.51	70,498	-2,573	.00	373.36	172,783	-3,284	.00
0	406.16	69,069	-1,429	.21	373.10	170,343	-2,440	.19
1	406.37	69,926	857	.86	372.95	168,951	-1,392	1.05
2	406.40	70,049	123	.00	372.82	167,771	-1,180	.00
3	406.23	69,355	-694	.00	372.55	165,319	-2,452	.00
4	405.81	67,691	-1,664	.00	372.14	161,596	-3,723	.00
5	405.26	65,595	-2,096	.00	371.68	157,466	-4,130	.10
6	404.57	62,969	-2,626	.00	371.18	152,999	-4,467	.00
7	403.90	60,447	-2,522	.00	370.53	147,501	-5,498	.00
8	403.30	58,311	-2.136	.00	369.85	141,871	-5,630	.00
9	402.84	56,675	-1,636	.00	369.18	136,325	-5,546	.00
20	402.45	55,291	-1,384	.00	368.30	129,516	-6,809	.00
21	401.75	52,882	-2,409	.00	367.54	123,742	-5,774	.00
22	401.07	50,674	-2,208	.00	366.78	118,112	-5,630	.00
23	400.47	48,729	-1.945	.00	365.94	112,280	-5,832	.00
24	401.08	50,707	1,978	.15	365,62	110,058	-2,222	.40
25	401.88	53,304	2,597	.79	365.59	109,598	-460	.87
6	401.85	53,207	-97	.01	365.55	109,572	-26	.40
27	402.42	55,185	1,978	.34	365.70	110,614	1,042	.19
28	403.12	57,670	2,485	.62	366.09	113,321	2,707	.42
9	403.12	57,670	0	.00	365.95	112,349	-972	.00
0	402.83	56,640	-1,030	.00	365.46	108,947	-3,402	.00
31	402.38	55,042	-1,598	.00	364.87	104,938	-4,009	.00
Total	402.50	33,072	1,570	11.87	304.07	104,750	4,007	14.24

Table 8. Summary of elevations, contents, and rainfall at 11 locks and dams on the Arkansas River in December 1982 [One cubic foot per second per day (ft³/s/d) is equivalent to 1.9835 acre-feet; measurements recorded at 2400 hours, central standard time; from U.S. Army Corps of Engineers, May 1983]

		1 1 1	J 43		Lock and dam 12					
		Lock and	dam 13			(Ozark-Jetta	Taylor)			
Day	Elevation above NGVD of 1929 (feet)	Contents (ft ³ /s/d)	Change in storage (ft ³ /s/d)	Rainfall at dam (inches)	Elevation above NGVD of 1929 (feet)	Contents (ft ³ /s/d)	Change in storage (ft ³ /s/d)	Rainfall at dam (inches)		
1	392.22	30,573	-1,971	0.00	372.30	76,588	-472	0.00		
2	391.26	27,334	-3,239	.54	372.04	75,054	-1,534	.30		
3	390.78	25,792	-1,542	3.53	372.07	75,231	177	5.69		
4	391.42	27,866	2,074	.68	370 .80	68,950	-6,281	.47		
5	392.00	29,796	1,930	.03	371.71	73,400	4,450	.04		
6	391.35	27,633	-2,163	.00	372.48	77,650	4,250	.00		
7	391.60	28,465	832	.00	372.12	75,526	-2,124	.00		
8	392.74	32,408	3 ,9 43	.00	372.53	77, 9 45	2,419	.00		
9	392.91	33,008	600	.00	372.36	76,942	-1,003	.00		
10	392.77	32,514	-494	.12	372.54	78,004	1,062	.18		
11	392.50	31,561	-953	.60	372.57	78,181	177	.50		
12	392.49	31,526	-35	.00	371.93	74,476	-3,705	.00		
13	393.05	33 ,52 5	1,999	.00	372.69	78,888	4,412	.00		
14	392.53	31,667	-1,858	.00	372.13	75,585	-3,303	.00		
15	393.20	34,122	2,455	.00	372.24	76,234	649	.00		
16	393.15	33,923	-199	.00	372.10	75,408	-826	.00		
17	392.24	30,643	-3,280	.00	372.50	77,768	2,360	.00		
18	392.38	31,137	494	.00	372.60	78,358	590	.00		
19	392.94	33,114	1,977	.00	372.10	75,408	-2,950	.00		
20	392.32	30,926	-2,188	.00	372.10	75,408	0	.00		
21	392.50	31,561	635	.00	372.38	77,060	1,652	.00		
22	393.08	33,644	2,083	.00	372.69	78,888	1,828	.00		
23	392.70	32,267	-1,377	.00	372.54	78,004	-884	.00		
24	392.80	32,620	353	.59	372.62	78,476	472	3.75		
25	392.02	29,867	2,753	.14	372.56	78,122	-354	.60		
26	392.32	30,926	1,059	.00	372.09	75,349	-2,773	.00		
27	392.22	30,573	-353	.36	372.48	77,650	2,301	.25		
28	392.67	32,161	1,588	1.05	372.30	76,588	-1,062	.84		
29	392.29	30,820	-1,341	.00	372.14	75,644	-944	.00		
30	392.63	32,020	1,200	.00	371.98	74,721	-923	.00		
31	392.44	31,349	−671	.00	372.12	75,526	805	.00		
Total				7.64				12.62		

Table 8. Summary of elevations, contents, and rainfall at 11 locks and dams on the Arkansas River in December 1982—Continued

		Lock and (Dardan)				Lock and	dam 9	
Day	Elevation above NGVD of 1929 (feet)	Contents (ft ³ /s/d)	Change in storage (ft ³ /s/d)	Rainfall at dam (inches)	Elevation above NGVD of 1929 (feet)	Contents (ft ³ /s/d)	Change in storage (ft ³ /s/d)	Rainfall at dam (inches)
1	337.40	234,992	-9,120	0.00	287.19	33,125	1,604	0.00
2	338.40	252,225	11,233	.33	285.20	27,681	-5,444	.17
3	337.73	240,566	-11,659	9.95	297.00	78,650	50,969	9.06
4	337.80	241,748	1,182	1.20	292.00	52,534	-26,116	1.79
5	337.83	242,255	507	.12	284.20	25,118	-27,416	.18
6	338.07	246,368	4,113	.00	284.92	29,587	4,469	.00
7	337.87	242,678	-3,690	.00	285.87	29,455	-132	.00
8	337.41	235,161	-7,517	.00	287.16	33,037	3,582	.00
9	337.38	234,654	-507	.00	287.31	33,476	439	.00
10	337.40	234,992	338	.24	287.18	33,096	-380	.10
11	337.76	241,072	6,080	.90	287.12	32,920	-176	.96
12	337.76	241,072	0	.00	287.50	34,031	1,111	.00
13	337.82	242,086	1,014	.00	286.59	31,432	-2,599	.00
14	337.82	242,086	0	.00	287.29	33,417	1,985	.00
15	337.29	^a 243,218	1,132	.03	286.93	32,375	-1,042	.00
16	337.89	243,268	50	.00	287.00	32,569	194	.00
17	338.09	246,723	3,455	.00	287.44	33,856	1,287	.00
18	338.50	253,999	7,276	.00	287.66	^a 33,930	74	.00
19	338.09	246,723	-7,276	.00	287.45	33,885	-45	.00
20	338.23	249,208	2,485	.00	286.45	31,044	-2,841	.00
21	338.02	245,481	-3,727	.00	286.34	30,739	-305	.00
22	338.09	246,723	1,242	.00	286.30	^a 30,628	-111	.00
23	338.22	249,030	2,307	.00	286.30	30,628	0	.00
24	338.46	253,289	4,259	.76	286.79	31,987	1,359	.00
25	338.15	247,788	-5,501	.93	286.40	30,905	-1,082	.40
26	338.20	248,675	887	.06	286.51	31,210	305	.12
27	338.46	254,802	6,127	.14	286.35	30,767	-443	.45
28	338.35	251,337	-3,465	.93	286.70	31,737	970	.56
29	338.21	248,853	-2,484	.00	286.22	30,406	-1,331	.00
30	338.57	255,241	6,388	.00	286.48	31,127	721	.00
31	338.45	253,112	-2,129	.00	286.74	31,848	721	.00
Total				15.59				14.60

^aEstimated

Table 8. Summary of elevations, contents, and rainfall at 11 locks and dams on the Arkansas River in December 1982—Continued

		Lock and	dam 8			Lock and	dam 7	
		(Toad Sucl	k Ferry)			(Murra	ay)	
Day	Elevation above NGVD of 1929 (feet)	Contents (ft ³ /s/d)	Change in storage (ft ³ /s/d)	Rainfall at dam (inches)	Elevation above NGVD of 1929 (feet)	Contents (ft ³ /s/d)	Change in storage (ft ³ /s/d)	Rainfall at dam (inches)
1	265.20	17,071	0	0.00	249.41	46,042	-1,714	0.00
2	264.10	14,823	-2,248	.12	249.32	45,575	-467	.09
3	278.20	97,375	82,552	1.38	249.80	48,067	2,492	1.05
4	278.91	106,574	9,199	4.48	254.52	78,678	30,611	2.86
5	272.92	48,692	-57,882	.39	250.48	51,792	-26,886	.24
6	268.00	26,469	-22,223	.00	247.38	36,699	-15,093	.00
7	266.00	18,805	-7,664	.00	247.74	38,224	1,525	.00
8	266.90	23,161	4,356	.00	249.45	46,250	8,026	.00
9	267.70	25,622	2,461	.00	250.74	53,247	6,997	.00
10	267.10	23,928	-1,694	.10	250.74	53,247	0	.09
11	267.10	23,928	0	1.20	250.62	52,576	-671	1.23
12	267.18	24,154	226	.00	250.70	53,023	447	.03
13	267.69	25,594	1,440	.00	250.80	53,583	560	.00
14	267.20	24,210	-1,384	.00	250.83	53,751	168	.00
15	267.00	23,645	-565	.05	250.90	54,142	391	.30
16	267.10	23,928	283	.00	251.53	57,962	3,820	.00
17	267.10	23,928	0	.00	251.51	57,839	-123	.00
18	266.41	20,790	-3,138	.00	251.41	57,224	-615	.00
19	266.00	18,805	-1,985	.00	251.56	58,147	923	.00
20	266.82	22,774	3,969	.00	251.12	57,564	-583	.00
21	265.60	17,938	-4,836	.00	251.48	57,654	90	.00
22	266.60	21,709	3,771	.00	251.37	56,978	-676	.00
23	267.14	24,041	2,332	.00	251.37	56,978	0	.00
24	267.00	23,645	-396	.52	251.47	57,593	615	.55
25	266.84	22,871	-774	1.60	251.39	57,101	-492	2.74
26	267.04	23,758	887	.05	251.19	55,871	-1,230	.55
27	266.71	22,242	-1,516	.75	251.20	55,931	61	.87
28	266.69	22,145	-97	.57	251.38	57,039	1,107	1.17
29	267.54	25,170	3,025	.00	251.28	56,424	-615	.00
30	267.03	23,730	-1,440	.00	251.19	55,871	-553	.00
31	267.08	23,871	141	.00	250.98	54,590	-1,281	.00
Total				11.21				11.77

Table 8. Summary of elevations, contents, and rainfall at 11 locks and dams on the Arkansas River in December 1982—Continued

		Lock and (D.D. To				Lock and	dam 5	
Day	Elevation above NGVD of 1929 (feet)	Contents (ft ³ /s/d)	Change in storage (ft ³ /s/d)	Rainfall at dam (inches)	Elevation above NGVD of 1929 (feet)	Contents (ft ³ /s/d)	Change in storage (ft ³ /s/d)	Rainfall at dam (inches)
1	231.27	25,582	836	0.00	213.05	31,087	-871	0.00
2	230.36	23,730	-1,852	.07	212.81	30,292	-795	.43
3	232.40	28,385	4,655	.07	210.67	23,906	-6,386	.12
4	237.10	43,837	15,452	1.24	216.23	43,909	20,003	1.98
5	235.64	38,321	-5,516	.30	216.95	47,213	3,304	.27
6	230.68	24,318	-14,003	.04	212.98	30,841	-16,372	.00
7	230.21	23,443	-875	.00	211.12	25,105	-5,736	.00
8	231.65	26,464	3,021	.00	213.09	31,232	6,127	.00
9	234.02	32,934	6,470	.00	214.47	36,360	5,128	.00
10	233.80	32,307	-627	.05	214.56	36,709	349	.03
11	233.71	32,053	-254	1.05	213.85	33,991	-2,718	1.06
12	233.79	32,279	226	.05	214.35	35,894	1,903	.19
13	234.14	33,309	1,030	.00	214.28	35,622	-272	.00
14	234.20	33,497	188	.00	214.70	37,25 3	1,631	.00
15	233.98	32,815	-682	1.17	214.30	35,700	-1,553	1.47
16	234.14	33,309	494	.00	214.54	36,632	932	.00
17	233.86	32,476	-833	.00	214.50	36,476	-156	.00
18	233.60	31,742	-734	.00	214.41	36,127	-349	.00
19	233.88	32,533	791	.00	213.91	34,209	-1,918	.00
20	233.67	31,940	-593	.00	214.51	36,515	2,306	.00
21	234.13	33,278	1,338	.00	214.54	36,632	117	.00
22	233.86	32,476	-802	.00	214.37	35,972	-660	.00
23	233.80	32,307	-169	.00	214.29	35,661	-311	.00
24	234.21	33,528	1,221	.52	214.67	37,136	1,475	.18
25	233.41	31,206	-2,322	2.50	214.62	36,942	194	1.90
26	233.41	31,206	0	.76	214.40	36,088	-854	.76
27	233.58	31,686	480	.74	214.60	36,865	777	1.63
28	233.46	31,347	-339	1.93	214.59	36,826	-39	3.38
29	233.70	32,025	678	.00	214.49	36,438	-388	.00
30	233.85	32,448	423	.00	214.66	37,098	660	.00
31	233.61	31,771	-677	.00	213.56	32,938	-4,160	.00
Total				10.49				13.40

Table 8. Summary of elevations, contents, and rainfall at 11 locks and dams on the Arkansas River in December 1982—Continued

Day above NGVD Contents storage at dam of 1929 (ft²/s/d) storage at dam (ft²/s/d) (ft²/s/d)			Lock and	dam 4		Lock and dam 3			
2. 195.63 34,486 -1,140 .00 181.94 23,275 -461 3. 194.16 30,442 -4,044 .20 181.10 21,624 -1,651 4. 198.46 43,496 13,054 1.88 186.15 33,457 11.833 1. 5. 199.60 47,553 4,057 .46 188.12 40,470 7,013 6. 197.29 39,713 -7,840 .00 186.60 34,909 -5,561 7. 194.97 32,688 -7,025 .00 182.78 24,966 -9,943 8. 196.90 38,488 5,800 .00 182.80 25,007 41 9. 196.72 37,889 -599 .00 182.50 24,402 -605 10. 196.64 37,623 -266 .00 182.70 24,805 403 11. 196.54 37,290 -333 1.33 182.41 24,220 -283 13. 196.91 38,821 1,996 .00 182.70	Day	above NGVD of 1929		storage	at dam	above NGVD of 1929		storage	Rainfall at dam (inches)
3 194.16 30,442 -4,044 20 181.10 21,624 -1,651 . 4 198.46 43,496 13,054 1.88 186.15 33,457 11,833 1. 5 199.60 47,553 4,057 .46 188.12 40,470 7,013 6 197.29 39,713 -7,840 .00 186.60 34,909 -5,561 7 194.97 32,688 -7,025 .00 182.78 24,966 -9,943 8 196.90 38,488 5,800 .00 182.80 25,007 41 9 196.72 37,889 -599 .00 182.50 24,402 -605 10 196.64 37,623 -266 .00 182.70 24,805 403 11 196.54 37,290 -333 1.33 182.55 24,503 -302 1. 12 196.31 36,525 -765 .31 182.41 24,200	1	196.04	35,626	487	0.00	182.17	23,736	141	0.00
4 198.46 43,496 13,054 1.88 186.15 33,457 11,833 1. 5 199.60 47,553 4,057 .46 188.12 40,470 7,013 . 6 197.29 39,713 -7,840 .00 186.60 34,909 -5,561 . 7 194.97 32,688 -7,025 .00 182.78 24,966 -9,943 . 8 196.90 38,488 5,800 .00 182.80 25,007 41 . 9 196.72 37,889 -599 .00 182.70 24,805 403 . 10 196.64 37,623 -266 .00 182.70 24,805 403 . 11 196.54 37,290 -333 1.33 182.55 24,503 -302 1. 12 196.31 36,525 -765 .31 182.41 24,220 -283 . 13 196.91 38,521 1,996 .00 182.70 24,805 585 .	2	195.63	34,486	-1,140	.00	181.94	23,275	-461	.00
5. 199.60 47,553 4,057 .46 188.12 40,470 7,013 . 6. 197.29 39,713 -7,840 .00 186.60 34,909 -5,561 . 7. 194.97 32,688 -7,025 .00 182.78 24,966 -9,943 . 8. 196.90 38,488 5,800 .00 182.80 25,007 41 . 9. 196.72 37,889 -599 .00 182.50 24,402 -605 .	3	194.16	30,442	-4,044	.20	181.10	21,624	-1,651	.00
6 197.29 39,713 -7,840 .00 186.60 34,909 -5,561 7 194.97 32,688 -7,025 .00 182.78 24,966 -9,943 8 196.90 38,488 5,800 .00 182.80 25,007 41 9 196.72 37,889 -599 .00 182.50 24,402 -605 10 196.64 37,623 -266 .00 182.70 24,805 403 11 196.54 37,290 -333 1.33 182.55 24,503 -302 1. 12 196.31 36,525 -765 .31 182.41 24,220 -283 13 196.91 38,521 1,996 .00 182.70 24,805 585 14 196.82 38,222 -299 .00 182.69 24,785 -20 15 197.00 38,821 599 1.82 182.79 24,987 202 2	4	198.46	43,496	13,054	1.88	186.15	33,457	11,833	1.30
7. 194.97 32,688 -7,025 .00 182.78 24,966 -9,943 8. 196.90 38,488 5,800 .00 182.80 25,007 41 9. 196.72 37,889 -599 .00 182.50 24,402 -605 10. 196.64 37,623 -266 .00 182.70 24,805 .403 11. 196.54 37,290 -333 1.33 182.55 24,503 -302 1. 12. 196.31 36,525 -765 .31 182.41 24,220 -283 13. 196.91 38,521 1,996 .00 182.70 24,805 585 14. 196.82 38,222 -299 .00 182.69 24,785 -20 15. 197.00 38,821 599 1.82 182.79 24,897 202 2 16. 196.8	5	199.60	47,553	4,057	.46	188.12	40,470	7,013	.03
8 196.90 38,488 5,800 .00 182.80 25,007 41 9 196.72 37,889 -599 .00 182.50 24,402 -605 10 196.64 37,623 -266 .00 182.70 24,805 403 11 196.54 37,290 -333 1.33 182.55 24,503 -302 1. 12 196.31 36,525 -765 31 182.41 24,220 -283 13 196.91 38,521 1,996 .00 182.70 24,805 585 14 196.82 38,222 -299 .00 182.69 24,785 -20 15 197.00 38,821 599 1.82 182.79 24,987 202 2. 16 196.85 38,322 -499 .00 182.80 25,007 20 17 196.70 37,823 -499 .00 182.70 24,805 302	6	197.29	39,713	-7,840	.00	186.60	34,909	-5,561	.00
9 196.72 37,889 -599 .00 182.50 24,402 -605 10 196.64 37,623 -266 .00 182.70 24,805 403 11 196.64 37,290 -333 1.33 182.55 24,503 -302 1. 12 196.31 36,525 -765 .31 182.41 24,220 -283 13 196.91 38,521 1,996 .00 182.70 24,805 585 14 196.82 38,222 -299 .00 182.69 24,785 -20 15 197.00 38,821 599 1.82 182.79 24,987 202 2. 16 196.85 38,322 -499 .00 182.80 25,007 20 17 196.70 37,823 -499 .00 182.55 24,503 -504 18 196.75 37,323 -500 .00 182.01 23,414 -1,391	7	194.97	32,688	-7,025	.00	182.78	24,966	-9,943	.00
10 196.64 37,623 -266 .00 182.70 24,805 403 11 196.54 37,290 -333 1.33 182.55 24,503 -302 1. 12 196.31 36,525 -765 .31 182.41 24,220 -283 13 196.91 38,521 1.996 .00 182.70 24,805 585 14 196.82 38,222 -299 .00 182.69 24,785 -20 15 197.00 38,821 599 1.82 182.79 24,987 202 2. 16 196.85 38,322 -499 .00 182.80 25,007 20 17 196.70 37,823 -499 .00 182.80 25,007 20 18 196.55 37,323 -500 .00 182.70 24,805 302 19 196.55 37,323 -500 .00 182.01 23,414 -1,391	8	196.90	38,488	5,800	.00	182.80	25,007	41	.00
10 196.64 37,623 -266 .00 182.70 24,805 403 11 196.54 37,290 -333 1.33 182.55 24,503 -302 1. 12 196.31 36,525 -765 .31 182.41 24,220 -283 13 196.91 38,521 1.996 .00 182.70 24,805 585 14 196.82 38,222 -299 .00 182.69 24,785 -20 15 197.00 38,821 599 1.82 182.79 24,987 202 2. 16 196.85 38,322 -499 .00 182.80 25,007 20 17 196.70 37,823 -499 .00 182.80 25,007 20 18 196.55 37,323 -500 .00 182.70 24,805 302 19 196.55 37,323 0 .00 182.69 24,785 1,371	9	196.72	37,889	-599	.00	182.50	24,402	-605	.00
12. 196.31 36,525 -765 .31 182.41 24,220 -283 .13 13. 196.91 38,521 1,996 .00 182.70 24,805 585 14. 196.82 38,222 -299 .00 182.69 24,785 -20 15. 197.00 38,821 599 1.82 182.79 24,987 202 2. 16. 196.85 38,322 -499 .00 182.80 25,007 20 17. 196.70 37,823 -499 .00 182.75 24,503 -504 18. 196.55 37,323 -500 .00 182.70 24,805 302 19. 196.55 37,323 0 .00 182.01 23,414 -1,391 20. 196.80 38,155 832 .00 182.69 24,785 1,371 21. 196.72 37,889 -266 .00 182.65 24,704 -81	10	196.64		-266	.00	182.70		403	.00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	11	196.54	37,290	-333	1.33	182.55	24,503	-302	1.27
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	12	196.31	36,525	-765	.31	182.41	24,220	-283	.06
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	13	196.91	38,521	1,996	.00	182.70	24,805	585	.00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	14	196.82	38,222	-299	.00	182.69	24,785	-20	.00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	15	197.00	38,821	599	1.82	182.79	24,987	202	2.55
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	16	196.85	38,322	-499	.00	182.80	25,007	20	.00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	17	196.70	37,823	-499	.00	182.55	24,503	-504	.00
20	18	196.55	37,323	-500	.00	182.70	24,805	302	.00
21 196.72 37,889 -266 .00 182.65 24,704 -81 . 22 196.60 37,490 -399 .00 182.65 24,704 0 . 23 196.68 37,756 266 .00 182.55 24,503 -201 . 24 196.64 37,623 -133 .03 182.63 24,664 161 . 25 196.85 38,322 699 .51 182.78 24,966 302 . 26 196.80 38,155 -167 1.32 182.76 24,926 -40 2 27 196.61 37,523 -632 1.84 182.64 24,684 -242 1 28 196.50 37,157 -366 2.51 182.60 24,603 -81 1 29 196.78 38,089 932 .00 182.80 25,007 404 . 30 196.50 37,157 -932 .00 182.60 24,603 -404 . 31	19	196.55	37,323	0	.00	182.01	23,414	-1,391	.00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	20	196.80	38,155	832	.00	182.69	24,785	1,371	.00
23 196.68 37,756 266 .00 182.55 24,503 -201 . 24 196.64 37,623 -133 .03 182.63 24,664 161 . 25 196.85 38,322 699 .51 182.78 24,966 302 . 26 196.80 38,155 -167 1.32 182.76 24,926 -40 2. 27 196.61 37,523 -632 1.84 182.64 24,684 -242 1. 28 196.50 37,157 -366 2.51 182.60 24,603 -81 1. 29 196.78 38,089 932 .00 182.80 25,007 404 . 30 196.50 37,157 -932 .00 182.60 24,603 -404 . 31 196.58 37,423 266 .00 182.65 24,704 101 .	21	196.72	37,889	-266	.00	182.65	24,704	-81	.00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	22	196.60	37,490	-399	.00	182.65	24,704	0	.00
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	23	196.68	37,756	266	.00	182.55	24,503	-201	.00
26 196.80 38,155 -167 1.32 182.76 24,926 -40 2. 27 196.61 37,523 -632 1.84 182.64 24,684 -242 1. 28 196.50 37,157 -366 2.51 182.60 24,603 -81 1. 29 196.78 38,089 932 .00 182.80 25,007 404 . 30 196.50 37,157 -932 .00 182.60 24,603 -404 . 31 196.58 37,423 266 .00 182.65 24,704 101 .	24	196.64	37,623	-133	.03	182.63	24,664	161	.00
27 196.61 37,523 -632 1.84 182.64 24,684 -242 1. 28 196.50 37,157 -366 2.51 182.60 24,603 -81 1. 29 196.78 38,089 932 .00 182.80 25,007 404 . 30 196.50 37,157 -932 .00 182.60 24,603 -404 . 31 196.58 37,423 266 .00 182.65 24,704 101 .	25	196.85	38,322	699	.51	182.78	24,966	302	.84
28	26	196.80	38,155	-167	1.32	182.76	24,926	-40	2.08
29 196.78 38,089 932 .00 182.80 25,007 404 . 30 196.50 37,157 -932 .00 182.60 24,603 -404 . 31 196.58 37,423 266 .00 182.65 24,704 101 .	27	196.61	37,523	-632	1.84	182.64	24,684	-242	1.19
29 196.78 38,089 932 .00 182.80 25,007 404 . 30 196.50 37,157 -932 .00 182.60 24,603 -404 . 31 196.58 37,423 266 .00 182.65 24,704 101 .	28	196.50	37,157	-366	2.51	182.60	24,603	-81	1.47
31 196.58 37,423 266 .00 182.65 24,704 101 .	29	196.78	38,089	932	.00	182.80		404	.00
,	30	196.50	37,157	-932	.00	182.60	24,603	-404	.00
	31	196.58	37,423	266	.00	182.65	24,704	101	.00
	Total				12.21				10.79

Table 8. Summary of elevations, contents, and rainfall at 11 locks and dams on the Arkansas River in December 1982—Continued

		Lock and	dam 2	
Day	Elevation above NGVD of 1929 (feet)	Contents (ft ³ /s/d)	Change in storage (ft ³ /s/d)	Rainfall at dam (inches)
1	162.28	57,076	1,621	0.07
2	162.30	57,188	112	.00
3	162.46	58,083	895	.00
4	163.62	64,856	6,773	2.91
5	168.44	106,835	41,979	.10
6	169.21	118,291	11,456	.00
7	165.95	79,487	-38,804	.00
8	162.11	56,124	-23,363	.00
9	161.97	55,347	-777	.00
10	161.78	54,322	-1,025	.00
11	162.10	56,068	1,746	1.67
12	161.84	54,646	-1,422	.51
13	161.88	54,861	215	.00
14	162.32	57,300	2,439	.00
15	161.54	53,027	-4,273	2.10
16	161.33	51,894	-1,133	.01
17	161.83	54,592	2,698	.00
18	161.68	53,782	-810	.00
19	162.00	55,509	1,727	.00
20	161.78	54,322	-1,187	.00
21	161.71	53,944	-378	.00
22	161.81	54,484	540	.00
23	161.70	53,890	-594	.00
24	161.92	55,077	1,187	.61
25	161.37	54,807	-270	.45
26	162.46	58,083	3,276	2.11
27	161.68	53,782	-4,301	1.88
28	161.69	53,836	54	2.15
29	161.71	53,944	108	.00
30	162.15	56,348	2,404	.00
31	161.79	54,376	-1,972	.00
Total				14.57

Table 9. Summary of elevations, contents, and rainfall at four lakes in the Little River basin, Arkansas, in November and December 1982

[One cubic foot per second per day $(ft^3/s/d)$ is equivalent to 1.9835 acre-feet; measurements recorded at 2400 hours, central standard time; from U.S. Army Corps of Engineers, May 1983]

		Novembe	er 1982			Decembe	er 1982	
Day	Elevation above NGVD of 1929 (feet)	Contents (ft ³ /s/d)	Change in storage (ft ³ /s/d)	Rainfall at dam (inches)	Elevation above NGVD of 1929 (feet)	Contents (ft ³ /s/d)	Change in storage (ft ³ /s/d)	Rainfall at dam (inches)
			(Gillham Lake ^a				
1	486.47			0.00	523.46	35,613	-2,161	0.00
2	487.43			1.70	532.03	45,813	10,200	.20
3	488.21			.40	558.70	89,395	43,582	9.20
4	488.53			.00	561.10	94,297	4,902	.16
5	488.68			.00	561.50	94,136	839	.00
6	488.81			.00	560.79	93,655	-1,481	.00
7	488.90			.00	559.84	91,700	-1,955	.00
8	488.99			.00	558.55	89,095	-2,605	.00
9	489.05			.00	557.30	86,369	-2,726	.00
10	489.08			.00	556.32	84,715	-1,654	.13
11	489.12			.00	557.40	86,818	-2,103	1.46
12	489.25			.30	557.49	86,994	176	.32
13	489.25			.00	556.80	85,644	-1,350	.00
14	489.25			.00	555.62	83,371	-2,273	.00
15	489.27			.00	554.42	81,101	-2,270	.00
16	489.29			.00	553.08	78,616	-2,485	.00
17	489.33			.02	552.19	76,994	-1,622	.00
18	489.37			.07	550.82	74,541	-2,453	.00
19	489.49			.28	549.35	71,967	-2,574	.00
20	489.57	9,431		.36	547.85	69,398	-2,569	.00
21	489.77	9,526	95	.00	546.33	66,856	-2,542	.00.
22	489.93	9,601	75	.00	544.76	64,293	-2,563	.00
23	494.13	11,769	2,168	.35	543.14	61,714	-2,579	.00.
24	495.35	12,454	685	.00	541.66	59,416	-2,298	.23
25	496.05	12,860	406	.00	540.55	57,729	-1,687	.60
26	499.87	15,223	2,363	.56	539.28	55,836	-1,893	.21
27	524.70	36,984	21,761	4.59	540.62	57,835	1,999	.97
28	527.36	40,044	3,060	1.26	541.84	59,691	1,856	.36
29	526.90	39,501	-543	.00	541.12	58,591	-1,100	.00
30	525.40	37,774	-1,727	.00	539.86	56,694	-1,897	.00
31					538.30	54,407	-2,287	.00
Total				9.89				11.84

^aMaximum elevation on November 27, 527.44 ft.

Table 9. Summary of elevations, contents, and rainfall at four lakes in the Little River basin, Arkansas, in November and December 1982—Continued

		Novembe	er 1982			Decembe	er 1982	
Day	Elevation above NGVD of 1929 (feet)	Contents (ft ³ /s/d)	Change in storage (ft ³ /s/d)	Rainfall at dam (inches)	Elevation above NGVD of 1929 (feet)	Contents (ft ³ /s/d)	Change in storage (ft ³ /s/d)	Rainfall at dam (inches)
			D	eQueen Lake				
1	427.70			0.00	447.51	28,013	594	0.00
2	428.35			1.72	454.15	36,231	8,218	.11
3	428.72			.03	461.45	46,891	10,660	7.44
4	428.88			.00	463.30	49,875	2,984	.12
5	428.98			.00	463.80	50,694	819	.02
6	429.04			.00	463.73	50,579	-115	.02
7	429.11			.00	462.76	48,995	-1,584	.00
8	429.14			.00	461.70	47,288	-1,707	.00
9	429.17			.00	460.57	45,511	-1,777	.00
10	429.21			.00	459.73	44,219	-1,292	.09
11	429.26			.00	461.03	46,224	2,005	1.30
12	429.27			.40	461.33	46,700	476	.78
13	429.27			.00	460.82	45,898	-802	.00
14	429.27			.00	459.89	44,462	-1,436	.00.
15	429.27			.00	458.85	42,889	-1,573	.00.
16	429.28			.00	457.61	41,065	-1,824	.00
17	429.30			.03	456.40	39,332	-1,733	.00
18	429.32			.00	455.15	37,591	-1,741	.00
19	429.38			.26	453.85	35,830	-1,761	.00
20	429.41	11,930		.20	452.45	33,999	-1,831	.00
21	429.45	11,956	26	.00	451.16	32,262	-1,737	.00
22	429.50	11,989	33	.00	449.75	30,636	-1,626	.00
23	429.89	12,245	256	.04	448.30	28,921	-1,715	.00.
24	430.12	12,398	153	.00	447.33	27,808	-1,113	.70
25	430.28	12,506	108	.00	447.06	27,500	-308	.70
26	433.00	14,424	1,918	.54	446.75	27,149	-351	.20
27	444.25	24,452	10,028	4.65	448.18	28,780	1,631	.85
28	446.07	26,400	1,948	.87	448.66	29,340	560	.35
29	446.80	27,210	810	.00	447.58	28,093	-1,247	.00
30	447.21	27,261	51	.00	446.32	26,677	-1,416	.00
31					444.90	25,434	-1,543	.00
Total				8.74				12.68

^bMaximum elevation for December 6, 463.93 ft; for December 28, 448.77 ft.

Table 9. Summary of elevations, contents, and rainfall at four lakes in the Little River basin, Arkansas, in November and December 1982—Continued

		Novembe	r 1982			Decembe	r 1982	
Day	Elevation above NGVD of 1929 (feet)	Contents (ft ³ /s/d)	Change in storage (ft ³ /s/d)	Rainfall at dam (inches)	Elevation above NGVD of 1929 (feet)	Contents (ft ³ /s/d)	Change in storage (ft ³ /s/d)	Rainfall at dam (inches)
				Dierks Lake				
1	523.10			0.00	533.23	20,505	-471	0.00
2	523.22			1.55	540.50	27,371	6,866	.43
3	523.27			.08	556.81	47,768	20,397	12.15
4	523.26			.00	557.73	49,137	1,369	.18
5	523.27			.00	558.00	49,539	402	.06
6	523.27			.00	557.93	49,535	-4	.06
7	523.27			.00	557.65	49,017	-518	.00
8	523.26			.00	557.16	48,286	-731	.00
9	523.25			.00	556.65	47,533	-753	.00
10	523.25			.00	556.40	47,167	-366	.09
11	523.23			.00	556.99	48,032	865	1.18
12	523.23			.27	557.29	48,480	448	.36
13	523.20			.00	557.17	48,301	-179	.00
14	523.15			.00	556.85	47,827	-474	.00
15	523.14			.00.	556.34	47,079	-748	.00.
16	523.11			.00	555.83	46,335	-744	.00
17	523.09			.00	555.21	45,441	-894	.00
18	523.10			.08	554.64	44,632	-809	.00
19	523.12			.32	554.02	43,760	-872	.00
20	523.12	13,058		.21	553.40	42,903	-857	.00.
21	523.12	13,058	0	.00	552.76	42,015	-888	.00
22	523.13	13,065	7	.00	552.15	41,163	-852	.00
23	523.69	13,420	355	.38	551.55	40,377	-786	.00
24	523.89	13,547	127	.00	550.80	39,413	-964	.20
25	524.04	13,644	97	.00	550.47	38,984	-429	.53
26	525.35	14,509	865	.41	550.52	39,049	65	.15
27	532.33	19,747	5,238	4.07	551.23	39,967	918	.98
28	533.80	20,994	1,247	.98	551.83	40,736	769	.53
29	534.10	21,254	260	.00	551.90	40,825	89	.00
30	533.78	20,976	-278	.00	551.64	40,493	-332	.00
31					551.22	39,955	-538	.00
Total				8.35				16.90

Table 9. Summary of elevations, contents, and rainfall at four lakes in the Little River basin, Arkansas, in November and December 1982—Continued

		Novembe	er 1982			Chan	er 1982	
Day	Elevation above NGVD of 1929 (feet)	Contents (ft ³ /s/d)	Change in storage (ft ³ /s/d)	Rainfall at dam (inches)	Elevation above NGVD of 1929 (feet)	Contents (ft ³ /s/d)	Change in storage (ft ³ /s/d)	Rainfall at dam (inches)
			M	Iillwood Lake				
1	259.29			0.00	261.23	135,516	-8,735	0.00
2	259.29			1.70	261.47	139,627	4,111	.00
3	259.40			.13	265.56	218,194	78,567	5.52
4	259.67			.00	268.50	284,968	66,774	.11
5	259.62			.00	269.17	301,333	16,365	.05
6	259.55			.00	268,44	283,517	-17,816	.05
7	259.43			.00	267.05	250,853	-32,664	.00
8	259.33			.00	265.72	221,586	-29,267	.00
9	259.26			.00	264.37	193,579	-28,007	.00
10	259.25			.00	263.26	171,867	-21,712	.14
11	259.27			.00	262.92	165,416	-6,451	1.20
12	259.24			.22	262.62	159,967	-5,449	.50
13	259.12			.00	262.27	153,608	-6,359	.00
14	258.98			.00	261.67	143,052	-10,556	.00
15	258.96			.00	261.29	136,544	-6,508	.00
16	258.93			.00	261.04	132,263	-4,281	.00
17	259.00			.13	260.88	129,644	-2,619	.00
18	259.14			.21	260.63	125,617	-4,027	.00
19	259.19			.37	260.36	121,268	-4,349	.00
20	259.15	102,673		.84	260.00	115,469	-5,799	.00
21	259.10	101,920	-753	.00	259.68	110,652	-4,817	.00
22	259.11	102,071	151	.00	259.62	109,749	-903	.00.
23	259.15	102,673	602	1.12	259.89	113,813	4,064	.00.
24	259.08	101,619	-1,054	.00	260.05	116,274	2,461	1.15
25	259.05	101,168	-451	.00	260.18	118,369	2,095	.55
26	259.21	103,577	2,409	.22	260.35	121,107	2,738	.12
27	260.09	116,919	13,342	2.36	260.50	123,523	2,416	.74
28	261.01	131,749	14,830	.74	260.81	128,517	4,994	.40
29	261.63	142,367	10,618	.00	261.05	132,433	3,916	.00
30	261.74	144,251	1,884	.00	260.80	128,356	-4,077	.00
31					260.70	126,745	-1,611	.00
Total				8.04				10.53

Table 10. Summary of daily elevations and contents at two lakes in the Ouachita River basin, Arkansas, in November and December 1982 and January 1983

[One cubic foot per second per day (ft³/s/d) is equivalent to 1.9835 acre-feet; from U.S. Army Corps of Engineers, August 1983]

	Novemb	per 1982	Decemb	per 1982	Januar	y 1983
Day	Elevation above NGVD of 1929 (feet)	Change in storage (ft ³ /s/d)	Elevation above NGVD of 1929 (feet)	Change in storage (ft ³ /s/d)	Elevation above NGVD of 1929 (feet)	Change in storage (ft ³ /s/d)
			Lake Ouachita	a		
1	575.5	-600	576.7	-2,600	583.9	-8,700
2	572.6	6,400	576.6	43,600	583.5	-8,900
3	572.8	500	583.1	210,000	583.1	-9,400
4	572.8	-400	589.4	39,000	582.7	-9,600
5	572.8	-1,100	590.1	1,400	582.2	-9,300
6	572.7	-300	590.1	-2,900	581.8	-10,400
7	572.7	-400	589.9	-5,900	581.3	-9,900
8	572.7	-800	589.6	-7,100	580.9	-9,400
9	572.7	-1,100	589.3	-8,700	580.4	-9,600
10	572.6	-900	589.0	-4,000	579.9	-10,000
11	572.5	-1,000	588.9	4,000	579.4	-8,300
12	572.5	-500	589.1	-3,000	579.1	-5,700
13	572.5	-1,700	588.8	-7,000	578.8	-5,700
14	572.4	-400	588.5	-6,700	578.5	-5,500
15	572.4	-2,400	588.3	-7,700	578.2	-6,900
16	572.2	-600	587.9	-10,100	577.9	-5,200
17	572.2	-1,500	587.4	-9,900	577.7	-4,900
18	572.1	-1,800	587.0	-8,900	577.5	-3,800
19	572.1	1,100	586.6	-10,800	577.3	-3,400
20	572.1	400	586.1	-10,600	577.1	-3,400
21	572.1	300	585.6	-10,700	577.0	-4,200
22	572.1	-5,400	585.2	-10,300	576.8	-2,500
23	572.4	4,300	584.7	-8,100	576.6	-3,200
24	572.5	400	584.3	-4,200	576.5	-3,700
25	572.6	-400	584.4	4,400	576.3	-3,000
26	572.6	6,700	584.5	600	576.1	-1,500
27	574.0	51,000	584.5	3,800	576.1	-3,000
28	576.3	20,800	584.8	3,700	575.9	-1,900
29	576.8	0	584.9	-2,600	575.9	600
30	576.8	-2,100	584.7	-7,100	575.9	-400
31			584.3	-7,900	575.8	1,100

Table 10. Summary of daily elevations and contents at two lakes in the Ouachita River basin, Arkansas, in November and December 1982 and January 1983—Continued

	Novemb	per 1982	Decemb	per 1982	Januar	y 1983
Day	Elevation above NGVD of 1929 (feet)	Change in storage (ft ³ /s/d)	Elevation above NGVD of 1929 (feet)	Change in storage (ft ³ /s/d)	Elevation above NGVD of 1929 (feet)	Change in storage (ft ³ /s/d
			Degray Lake			
1	399.1	-300	407.3	-4,000	406.0	-1,800
2	399.2	2,300	406.9	4,500	405.7	-2,700
3	399.5	1,300	410.9	87,800	405.3	300
4	399.6	200	420.1	8,500	405.3	-200
5	399.6	200	420.5	-1,600	405.3	-400
6	399.7	200	420.2	-4,000	405.2	-800
7	399.7	-600	419.6	-6,300	405.0	-1,000
8	399.6	200	418.8	-7,200	404.9	-1,000
9	399.6	0	417.9	-7,600	404.8	-900
10	399.6	100	416.9	-6,900	404.6	-1,200
11	399.7	200	416.2	-2,100	404.4	-1,000
12	399.7	-200	415.9	-4,000	404.2	-1,300
13	399.6	-100	415.3	-6,300	404.0	-1,300
14	399.6	100	414.5	-7,000	403.9	-1,300
15	399.6	-200	413.5	-7,400	403.6	-1,300
16	399.6	-200	412.4	-6,400	403.5	-1,100
17	399.6	100	411.6	-5,700	403.3	-1,500
18	399.6	-100	410.8	-5,600	403.0	-1,000
19	399.6	1,100	410.0	-6,100	402.9	-700
20	399.8	1,000	409.1	-6,000	402.8	-100
21	400.1	1,800	408.2	-6,100	402.8	-100
22	400.3	700	407.4	-5,300	402.8	200
23	400.8	7,900	406.8	-2,500	402.8	300
24	401.8	2,200	406.5	-1,300	402.8	0
25	402.1	1,300	406.5	2,300	402.8	0
26	402.3	3,100	406.7	0	402.8	200
27	403.9	27,500	406.8	2,300	402.9	100
28	407.9	8,400	407.3	1,300	402.9	200
29	408.3	-1,600	407.2	-2,300	402.9	400
30	407.9	-3,200	406.9	-2,700	403.0	100
31			406.4	-3,000	403.0	1,200

Table 11. Summary of hourly pool elevations and outflow at two dams in the Ouachita River basin, Arkansas, on December 2–3, 1982

[From Arkansas Power and Light Company]

	December 2,	1982	December 3,	1982
Time (hours)	Elevation above NGVD of 1929 (feet)	Outflow (acre-ft)	Elevation above NGVD of 1929 (feet)	Outflow (acre-f
		olto Catharina (Dammal D		
0000	299.88	ake Catherine (Remmel D 309	303.53	468
0100	299.79	282	303.78	653
0200	299.64	229	303.90	1,275
0300	299.29	262	304.06	2,060
0400	299.26	262	304.00	2,371
0500	299.95	339	304.38	3,120
0600	299.04	392	304.82	4,587
0700	299.28	434	305.44	6,088
0800	299.38	553	306.11	7,163
0900	299.44	593	306.64	8,453
1000	299.60	593	307.52	9,268
1100	299.72	603	308.56	10,258
1200	299.85	788	309.50	10,642
1300	299.97	603	310.18	10,642
1400 1500	300.11	699 743	310.17 310.00	10,560 9,862
	300.22	743		
1600	300.38	842	309.20	9,389
1700	300.71	1,133	308.41	8,364
1800	301.38	1,153	307.76	6,951
1900	301.81	881	307.21	5,916
2000	302.33	633	307.03	4,510
2100	302.74	668	307.04	2,828
2200	303.02	643	307.00	2,095
2300	303.29	546	306.79	1,335
2400	303.53	468	306.46	1,216
	La	ke Hamilton (Carpenter D	Dam)	
0000	398.95	85	400.66	492
0100	398.98	_	400.99	585
0200	398.92	_	401.51	1,024
0300	398.98	_	402.28	1,816
0400	398.97	355	403.00	2,758
0500	399.00	734	403.61	4,225
0600	399.00	834	404.60	5,912
0700	399.02	841	404.27	6,690
0800	399.02	912	404.36	7,719
0900				
1000	399.01 399.00	888 923	404.36 404.26	8,667 9,515
1100	398.98	912	404.17	9,461
1200	398.97	923	404.00	9,413
1300	398.95	912	403.76	8,314
1400	399.00	923	403,35	7,629
1500	399.10	923	403.04	6,441
1600	399.32	912	402.82	5,907
1700	399.49	918	402.58	5,025
1800	399.76	918	402.36	4,614
1900	399.87	679	402.11	3,920
2000	400.01	656	401.86	3,070
2100	400.06	656	401.72	1,607
2200	400.33	644	401.69	969
2300	400.33	508	401.69	925
	70.0.17			

Table 12. Summary of elevations, contents, and rainfall at five lakes in the White River basin, Arkansas, in December 1982 and January 1983

[One cubic foot per second per day $(ft^3/s/d)$ is equivalent to 1.9835 acre-feet; measurements recorded at 2400 hours, central standard time; from U.S. Army Corps of Engineers, May 1983]

		Decembe	er 1982			January	1983	
Day	Elevation above NGVD of 1929 (feet)	Contents (ft ³ /s/d)	Change in storage (ft ³ /s/d)	Rainfall at dam (inches)	Elevation above NGVD of 1929 (feet)	Contents (ft ³ /s/d)	Change in storage (ft ³ /s/d)	Rainfall at dam (inches)
				Beaver Lake				
1	1,112.58	731,910	2,089	0.00	1,123.93	890,131	1,920	0.00
2	1,113.50	743,923	12,013	.05	1,124.01	891,316	1,185	.00
3	1,117.61	799,352	55,429	6.21	1,124.09	892,522	1,206	.00
4	1,119.39	824,253	24,901	1.08	1,124.12	892,974	452	.00
5	1,119.84	830,582	6,329	.17	1,124.18	893,878	904	.00
6	1,120.09	834,131	3,549	.00	1,124.22	894,481	603	.00
7	1,120.29	837,015	2,884	.00	1,124.26	895,084	603	.00
8	1,120.36	838,024	1,009	.00	1,124.31	895,838	754	.00
9	1,120.48	839,754	1,730	.00	1,124.37	896,743	905	.00
10	1,120.60	841,484	1,730	.38	1,124.40	897,195	452	.00
11	1,120.68	842,638	1,154	.41	1,124.37	896,743	-452	.00
12	1,120.79	844,224	1,586	.00	1,124.40	897,195	452	.00
13	1,120.91	845,954	1,730	.00	1,124.46	898,099	904	.00
14	1,120.99	847,108	1,154	.00	1,124.42	897,496	-603	.00
15	1,121.04	847,829	721	.00	1,124.42	897,496	0	.00
16	1,121.12	848,982	1,153	.00	1,124.42	897,496	0	.00
17	1,121.22	850,424	1,442	.00	1,124.41	897,346	-150	.00
18	1,121.30	851,578	1,154	.00	1,124.41	897,346	0	.00
19	1,121.34	852,155	577	.00	1,124.41	897,346	0	.00
20	1,121.34	852,155	0	.00	1,124.41	897,346	0	.00
21	1,121.40	853,020	865	.00	1,124.46	898,099	753	.10
22	1,121.48	854,173	1,153	.00	1,124.47	898,250	151	.45
23	1,121.54	855,038	865	.00	1,124.47	898,250	0	.00
24	1,121.93	860,662	5,624	.82	1,124.48	898,401	151	.00
25	1,122.38	867,266	6,604	.94	1,124.48	898,401	0	.15
26	1,122.60	870,504	3,238	.00	1,124.54	899,305	904	.00
27	1,122.97	875,951	5,447	.76	1,124.58	899,908	603	.30
28	1,123.28	880,529	4,578	.82	1,124.58	899,908	0	.00
29	1,123.50	883,779	3,250	.00	1,124.67	901,265	1,357	.43
30	1,123.67	886,290	2,511	.00	1,124.70	901,717	452	.05
31	1,123.80	888,211	1,921	.00	1,124.71	901,868	251	.00
Total				11.64				1.48

Table 12. Summary of elevations, contents, and rainfall at five lakes in the White River basin, Arkansas, in December 1982 and January 1983—Continued

		Decembe	r 1982			Januar	y 1983	
Day	Elevation above NGVD of 1929 (feet)	Contents (ft ³ /s/d)	Change in storage (ft ³ /s/d)	Rainfall at dam (inches)	Elevation above NGVD of 1929 (feet)	Contents (ft ³ /s/d)	Change in storage (ft ³ /s/d)	Rainfall at dam (inches)
			Т	able Rock La	ake	· · · · · · · · · · · · · · · · · · ·		
1	915.83	1,380,252	-2,602	0.00	916.61	1,397,469	-10,427	0.00
2	917.22	1,411,001	30,749	.47	916.13	1,386,821	-10,648	.00
3	922.39	1,529,906	118,905	3.27	915.85	1,380,686	-6,135	.00
4	925.79	1,612,232	82,326	.00	915.69	1,377,217	-3,469	.00
5	926.49	1,629,719	17,487	.15	915.43	1,371,580	-5,637	.00
6	926.69	1,634,760	5,041	.00.	915.19	1,366,377	-5,203	.00.
7	926.60	1,632,492	-2,268	.00	914.93	1,360,741	-5,636	.00
8	926.38	1,626,946	-5,546	.00	914.96	1,361,391	650	.00
9	925.92	1,615,411	-11,535	.00	914.99	1,362,042	651	.00
10	925.72	1,610,520	-4,891	.22	915.06	1,363,559	1,517	.00.
11	925.48	1,604,652	-5,868	.29	915.08	1,363,993	434	.00.
12	925.07	1,594,626	-10,026	.00	915.07	1,363,776	-217	.00
13	924.59	1,582,889	-11,737	.00	915.08	1,363,993	217	.00
14	924.13	1,571,641	-11,248	.00	915.12	1,364,860	867	.00
15	923.57	1,558,165	-13,476	.00.	915.16	1,365,727	867	.00
16	922.97	1,543,796	-14,369	.00	915.23	1,367,245	1,518	.00
17	922.35	1,528,948	-14,848	.00	915.14	1,365,293	-1,952	.00
18	921.75	1,514,706	-14,242	.00	915.03	1,362,909	-2,384	.00
19	921.10	1,499,467	-15,239	.00	915.05	1,363,342	433	.00
20	920.42	1,483,526	-15,941	.00	915.05	1,363,342	0	.00.
21	919.81	1,469,369	-14,157	.00	915.11	1,364,643	1,311	.18
22	919.25	1,456,664	-12,705	.00	915.14	1,365,293	640	.23
23	918.68	1,443,732	-12,932	.00	915.18	1,366,161	868	.00
24	918.48	1,439,194	-4,538	.90	915.14	1,365,293	-868	.00
25	918.71	1,444,412	5,218	.26	915.00	1,362,258	-3,035	.21
26	918.57	1,441,236	-3,176	.00	914.97	1,361,608	-650	.00
27	918.34	1,436,018	-5,218	.00	914.98	1,361,825	217	.02
28	918.15	1,431,707	-4,311	.29	914.98	1,361,825	0	.00.
29	917.86	1,425,199	-6,508	.00	915.10	1,364,426	2,601	.28
30	917.49	1,416,991	-8,208	.00	915.16	1,365,727	1,301	.04
31	917.08	1,407,896	-9,095	.00	915.16	1,365,727	0	.00.
Total				5.85				.96

Table 12. Summary of elevations, contents, and rainfall at five lakes in the White River basin, Arkansas, in December 1982 and January 1983—Continued

		Decembe	r 1982		January 1983			
Day	Elevation above NGVD of 1929 (feet)	Contents (ft ³ /s/d)	Change in storage (ft ³ /s/d)	Rainfall at dam (inches)	Elevation above NGVD of 1929 (feet)	Contents (ft ³ /s/d)	Change in storage (ft ³ /s/d)	Rainfall at dam (inches)
			Bu	ll Shoals Lake	e ^a			
1	654.97	1,558,951	5,734	0.00	678.53	2,183,445	13,007	0.00
2	658.43	1,640,377	81,426	.00	678.95	2,196,150	12,705	.00
3	664.70	1,796,699	156,322	4.95	679.23	2,204,620	8,470	.00
4	666.38	1,840,183	43,484	1.17	679.39	2,209,460	4,840	.00
5	667.42	1,867,711	27,528	.38	679.59	2,215,510	6,050	.00
6	668.25	1,889,869	22,158	.00	679.82	2,222,468	6,958	.00
7	668.91	1,907,837	17,970	.00	679.94	2,226,098	3,630	.00
8	669.48	1,923,356	15,517	.00	679.95	2,226,400	302	.00
9	670.07	1,939,454	16,098	.00	679.86	2,223,678	-2,722	.00.
10	670.61	1,954,427	14,973	.04	679.70	2,218,838	-4,840	.00
11	671.03	1,966,074	11,647	.21	679.45	2,211,275	-7,563	.00
12	671.47	1,978,274	12,200	.00	679.08	2,200,083	-11,192	.00.
13	671.95	1,991,584	13,310	.00	678.62	2,186,168	-13,915	.00
14	672.38	2,003,795	12,211	.00	678.08	2,169,833	-16,335	.00
15	672.76	2,014,620	10,825	.00	677.41	2,149,863	-19,970	.00
16	673.06	2,023,165	8,545	.00	676.73	2,129,635	-20,228	.00
17	673.22	2,027,723	4,558	.00	676.06	2,109,706	-19,928	.00
18	673.44	2,033,990	6,267	.00	675.42	2,091,107	-18,599	.00
19	673.56	2,037,408	3,418	.00	674.68	2,069,655	-21,452	.00
20	673.61	2,038,832	1,424	.00	673.93	2,047,948	-21,707	.00
21	673.62	2,039,117	285	.00	673.18	2,026,584	-21,364	.18
22	673.50	2,035,699	-3,418	.00	672.29	2,001,232	-25,352	.14
23	673.50	2,035,699	0	.00	671.44	1,977,443	-23,789	.00
24	674.12	2,053,420	17,721	2.10	670.70	1,956,923	-20,520	.00.
25	674.94	2,077,192	23,772	.44	669.92	1,935,335	-21,588	.04
26	675.58	2,095,745	18,553	.00	669.07	1,912,193	-23,142	.00
27	676.22	2,114,465	18,720	.00	668.00	1,883,063	-29,130	.00
28	676.74	2,129,933	15,468	.36	667.03	1,857,388	-25,675	.00
29	677.20	2,143,616	13,683	.00	666.18	1,834,889	-22,499	.29
30	677.66	2,157,299	13,683	.00	665.24	1,810,584	-24,305	.01
31	678.10	2,170,438	13,139	.00	664.49	1,791,299	-19,285	.00
Total				9.65				.66

^aMaximum elevation for January 8, 680.03 ft.

Table 12. Summary of elevations, contents, and rainfall at five lakes in the White River basin, Arkansas, in December 1982 and January 1983—Continued

		Decembe	r 1982		January 1983				
Day	Elevation above NGVD of 1929 (feet)	Contents (ft ³ /s/d)	Change in storage (ft ³ /s/d)	Rainfall at dam (inches)	Elevation above NGVD of 1929 (feet)	Contents (ft ³ /s/d)	Change in storage (ft ³ /s/d)	Rainfall at dam (inches)	
			1	Norfolk Lakeb					
1	545.34	559,996	2,160	0.00	567.00	812,969	1,704	0.00	
2	547.68	584,184	24,188	.00	567.09	814,180	1,211	.00	
3	557.03	688,242	104,058	6.65	567.15	814,988	808	.00.	
4	560.83	734,060	45,818	1.78	567.20	815,661	673	.00	
5	562.50	754,889	20,829	.30	567.26	816,469	808	.00	
6	563.45	766,903	12,014	.00	567.26	816,469	0	.00	
7	564.01	774,074	7,171	.00	567.03	813,373	-3,096	.00	
8	564.41	779,197	5,123	.00	566.71	809,167	-4,206	.00	
9	564.64	782,142	2,945	.00	566.40	805,104	-4,063	.06	
10	564.87	785,087	2,945	.02	566.05	800,516	-4,588	.00	
11	565.12	788,325	3,238	.27	565.71	796,059	-4,457	.00	
12	565.31	790,816	2,491	.00	565.35	791,340	-4,719	.00	
13	565.48	793,044	2,228	.00	564.97	786,368	-4,972	.00	
14	565.52	793,568	524	.00	564.60	781,630	-4,738	.00	
15	565.43	792,387	-1,181	.00	564.13	775,611	-6,019	.00	
16	565.20	789,374	-3,013	.00	563.67	769,720	-5,891	.00	
17	564.89	785,343	-4,031	.00	563.22	763,958	-5,762	.00	
18	564.59	781,502	-3,841	.00	562.73	757,765	-6,193	.00	
19	564.27	777,404	-4,098	.00	562.25	751,763	-6,002	.00	
20	563.97	773,562	-3,842	.00	561.77	745,761	-6,002	.00	
21	563.59	768,696	-4,866	.00	561.33	740,260	-5,501	.01	
22	563.19	763,574	-5,122	.00	560.85	734,304	-5,956	.15	
23	562.85	759,265	-4,309	.00	560.37	728,447	-5,857	.01	
24	564.00	773,946	14,681	1.10	559.89	722,585	-5,862	.00	
25	565.00	786,752	12,806	1.36	559.36	716,092	-6,493	.00	
26	565.50	793,306	6,554	.01	558.81	709,421	-6,671	.00	
27	565.96	799,336	6,030	.00	558.24	702,639	-6,782	.15	
28	566.37	804,711	5,375	.39	557.67	695,857	-6,782	.00	
29	566.57	807,332	2,621	.00	557.13	689,432	-6,425	.15	
30	566.73	809,430	2,098	.00	556.58	682,994	-6,438	.04	
31	566.87	811,265	1,835	.00	556.11	677,520	-5,474	.00	
Total				11.88				.57	

^bMaximum elevation for December 14, 565.53 ft; for January 6, 567.30 ft.

Table 12. Summary of elevations, contents, and rainfall at five lakes in the White River basin, Arkansas, in December 1982 and January 1983—Continued

		Decembe	r 1982		······································	January 1	1983	
Day	Elevation above NGVD of 1929 (feet)	Contents (ft ³ /s/d)	Change in storage (ft ³ /s/d)	Rainfall at dam (inches)	Elevation above NGVD of 1929 (feet)	Contents (ft ³ /s/d)	Change in storage (ft ³ /s/d)	Rainfall at dam (inches)
			Gre	ers Ferry Lak	:e ^c			
1	457.37	906,542	2,874	0.03	482.27	1,339,838	-787	0.00
2	457.78	912,743	6,201	.02	482.20	1,338,462	-1,376	.02
3	476.06	1,221,707	308,964	2.01	482.11	1,336,692	-1,770	.00
4	477.70	1,252,300	30,593	3.70	482.00	1,334,529	-2,163	.00
5	478.30	1,263,417	11,117	.20	481.84	1,331,424	-3,105	.00
6	478.58	1,268,569	5,152	.00	481.70	1,328,706	-2,718	.00
7	478.79	1,272,434	3,865	.00	481.48	1,324,436	-4,270	.00.
8	478.95	1,275,378	2,944	.00	481.23	1,319,583	-4,853	.00
9	479.00	1,276,298	920	.00	480.97	1,314,536	-5,047	.19
10	479.10	1,278,239	1,941	.06	480.61	1,307,549	-6,987	.00
11	479.28	1,281,733	3,494	.87	480.30	1,301,532	-6,017	.00
12	479.38	1,283,674	1,941	.00	479.90	1,293,767	-7,765	.00
13	479.38	1,283,674	0	.00	479.52	1,286,391	-7,376	.00
14	479.37	1,283,480	-94	.00	479.10	1,278,239	-8,152	.00.
15	479.36	1,283,286	-294	.03	478.58	1,268,569	-9,670	.00
16	479.24	1,280,956	-2,330	.00	478.02	1,258,264	-10,305	.00
17	479.16	1,279,404	-1,552	.00	477.46	1,247,823	-10,441	.00
18	479.06	1,277,463	-1,941	.00	476.89	1,237,190	-10,633	.00
19	478.94	1,275,194	-2,269	.00	476.31	1,226,370	-10,820	.00
20	478.82	1,272,986	-2,208	.00	475.77	1,216,355	-10,015	.00
21	478.67	1,270,225	-2,761	.00	475.22	1,206,234	-10,121	.11
22	478.47	1,266,545	-3,680	.00	474.66	1,195,929	-10,305	.03
23	478.32	1,263,785	-2,760	.00	474.09	1,185,440	-10,489	.00
24	479.58	1,287,556	23,771	1.73	473.51	1,175,013	-10,427	.00
25	480.45	1,304,443	16,887	2.29	472.94	1,164,812	-10,201	.00
26	480.90	1,313,178	8,735	.02	472.42	1,155,505	-9,307	.00.
27	481.52	1,325,212	12,034	.41	471.91	1,146,399	-9,106	.17
28	482.12	1,336,889	11,677	1.21	471.56	1,140,223	-6,176	.00
29	482.27	1,339,838	2,949	.00	471.18	1,133,518	-6,705	.23
30	482.30	1,340,428	590	.00	470.77	1,126,283	-7,235	.00
31	482.31	1,340,625	197	.00	470.38	1,119,401	-6,882	.00
Total				12.58				.75

^cMaximum elevation for December 13, 479.40 ft.

Table 13. Summary of elevations and contents of four lakes in the Upper Yazoo River basin, Mississippi, in December 1982 and January 1983

[One cubic foot per second per day $(ft^3/s/d)$ is equivalent to 1.9835 acre-feet; measurements recorded at 800 hours, central standard time; from U.S. Army Corps of Engineers, May 1983]

		December 1982			January 1983	
	Elevation			Elevation		
Day	above NGVD	Contents	Change in	above NGVD	Contents	Change in
	of 1929	(ft ³ /s/d)	storage (ft ³)	of 1929	(ft ³ /s/d)	storage (ft ³ /s/d
	(feet)			(feet)		
		Arl	cabutla Lake (Coldwat	er River)		
1	217.8	48,945		238.0	260,200	1,596
2	217.9	49,554	609	238.1	261,939	1,739
3	218.0	49,963	409	238.1	261,939	0
4	220.7	66,439	16,476	238.0	260,200	-1,739
5	226.0	107,740	41,301	238.0	260,200	0
6	227.7	124,239	16,499	237.9	258,604	-1,596
7	228.6	133,655	9,416	237.8	257,009	-1,596
8	228.9	136,907	3,252	237.7	255,413	-1,596
9	228.8	135,823	-1,084	237.8	257,009	1,596
10	228.7	134,739	-1,084	237.8	257,009	0
11	228.5	132,571	-2,168	237.8	257,009	0
12	228.7	134,739	2,168	237.6	253,817	-3,192
13	228.5	132,571	-2,168	237.4	250,625	-3,192
14	228.1	128,235	-4,336	237.1	245,839	-4,786
15	227.8	125,210	-3,025	236.7	239,457	-6,382
16	229.5	143,410	18,200	236.3	233,074	-6,383
17	230.1	150,030	6,620	235.9	226,835	-6,239
18	230.1	150,030	0	235.5	221,027	-5,808
19	230.1	150,030	0	235.1	215,219	-5,808
20	230.1	150,030	0	234.7	209,411	-5,808
21	229.9	147,746	-2,284	234.5	206,507	-2,904
22	229.7	145,578	-2,168	234.6	207,959	1,452
23	229.5	143,410	-2,168	234.6	207,959	0
24	229.4	142,326	-1,084	234.4	205,055	-2,904
25	229.2	140,158	-2,168	234.1	200,699	-4,356
26	230.4	153,630	13,472	233.8	196,605	-4,094
27	234.4	205,055	51,425	233.6	193,963	-2,642
28	236.4	234,670	29,615	233.1	187,358	-6,605
29	237.4	250,626	15,956	232.8	183,395	-3,963
30	237.8	257,009	6,383	232.3	176,791	-6,604
31	237.9	258,604	1,595	232.0	172,828	-3,963

Table 13. Summary of elevations and contents of four lakes in the Upper Yazoo River basin, Mississippi, in December 1982 and January 1983—Continued

		December 1982			January 1983	
	Elevation			Elevation		
Day	above NGVD	Contents	Change in	above NGVD	Contents	Change in
	of 1929	(ft ³ /s/d)	storage (ft ³)	of 1929	(ft ³ /s/d)	storage (ft ³)
	(feet)		-	(feet)		-
		Grena	ada Lake (Yalobusha	River)		
1	209.9	194,812		231.6	694,358	0
2	210.4	202,171	7,359	231.7	697,618	3,260
3	210.8	208,170	5,999	231.7	697,618	0
4	212.4	232,784	24,614	231.8	700,877	3,259
5	215.0	277,317	44,533	231.8	700,877	0
6	216.5	305,184	27,867	231.8	700,877	0
7	217.0	314,978	9,794	231.8	700,877	0
8	217.2	318,895	3,917	231.8	700,877	0
9	217.3	320,854	1,959	232.0	707,396	6,519
10	217.3	320,854	0	232.3	715,027	7,631
11	217.7	328,689	7,835	232.3	715,027	0
12	218.7	349,334	20,645	232.3	715,027	0
13	219.5	366,214	16,880	232.2	712,483	-2,544
14	219.8	372,544	6,330	232.0	707,396	-5,087
15	220.6	390,422	17,878	231.9	704,137	-3,259
16	220.5	388,146	-2,276	231.7	697,618	-6,519
17	220.8	394,974	6,828	231.5	691,099	-6,519
18	221.0	399,527	4,553	231.3	684,580	-6,519
19	221.0	399,527	0	231.2	681,321	-3,259
20	221.0	399,527	0	231.0	674,802	-6,519
21	221.0	399,527	0	231.6	694,358	19,556
22	220.9	397,251	-2,276	232.3	715,027	20,669
23	220.8	394,974	-2,277	232.4	717,570	2,543
24	220.6	390,422	-4,552	232.4	717,570	0
25	220.6	390,422	0	232.2	712,483	-5,087
26	223.5	459,120	68,698	232.1	709,940	-2,543
27	223.4	432,111	-27,009	232.0	707,396	-2,544
28	230.6	661,764	229,653	231.9	704,137	-3,259
29	231.3	684,580	22,816	231.8	700,877	-3,260
30	231.5	691,099	6,519	231.7	697,618	-3,259
31	231.6	694,358	3,259	231.5	691,099	-6,519

Table 13. Summary of elevations and contents of four lakes in the Upper Yazoo River basin, Mississippi, in December 1982 and January 1983—Continued

		December 1982			January 1983	
	Elevation			Elevation		
Day	above NGVD	Contents	Change in	above NGVD	Contents	Change in
	of 1929	$(ft^3/s/d)$	storage (ft ³)	of 1929	(ft ³ /s/d)	storage (ft ³)
	(feet)		-	(feet)		
		Sardis I	Lake (Little Tallahatch	hie River)		
1	249.4	163,083		275.1	618,378	30,026
2	250.1	170,802	7,719	274.3	598,272	-21,006
3	250.6	176,801	5,999	274.4	600,785	2,513
4	252.2	196,186	19,385	274.5	603,299	2,514
5	253.4	211,705	15,519	274.6	605,812	2,513
6	255.1	234,742	23,037	274.7	608,325	2,513
7	256.5	254,680	19,938	274.8	610,838	2,513
8	257.2	265,091	10,411	274.9	613,352	2,514
9	257.5	269,553	4,462	274.9	613,352	0
10	257.6	271,040	1,487	275.1	618,378	5,026
11	257.9	275,502	4,462	275.2	620,892	2,514
12	259.2	296,137	20,635	275.2	620,892	0
13	258.6	286,563	-9,574	275.2	620,892	0
14	259.1	294,542	7,979	275.2	620,892	0
15	259.5	300,925	6,383	275.1	618,378	-2,514
16	260.1	310,592	9,667	275.0	615,865	-2,513
17	260.6	319,037	8,445	274.8	610,838	-5,027
18	261.2	329,170	10,133	274.6	605,812	-5,026
19	261.4	332,548	3,378	274.4	600,785	-5,027
20	261.5	334,237	1,689	274.2	595,759	-5,026
21	261.6	335,926	1,689	274.2	595,759	0
22	261.6	335,926	0	274.5	603,299	7,540
23	261.5	335,926	0	274.6	605,812	2,513
24	261.4	332,548	-3,378	274.7	608,325	2,513
25	261.5	334,237	1,689	274.7	608,325	0
26	263.0	360,505	26,268	274.5	603,299	-5,026
27	266.3	422,078	61,573	274.4	600,785	-2,514
28	272.2	547,898	125,820	274.3	598,272	-2,513
29	272.4	552,658	4,760	274.2	595,759	-2,513
30	273.5	578,834	26,176	274.0	590,732	-5,027
31	273.9	588,352	9,518	273.9	588,352	-2,380

Table 13. Summary of elevations and contents of four lakes in the Upper Yazoo River basin, Mississippi, in December 1982 and January 1983—Continued

		December 1982		January 1983			
	Elevation			Elevation			
Day	above NGVD	Contents	Change in	above NGVD	Contents	Change in	
	of 1929	(ft ³ /s/d)	storage (ft ³)	of 1929	(ft ³ /s/d)	storage (ft ³	
	(feet)		-	(feet)			
		Е	nid Lake (Yocona Ri	ver)			
1	248.3	122,840		266.76	315,658	2,205	
2	248.8	126,748	3,908	266.87	317,174	1,516	
3	249.0	128,310	1,562	267.00	318,965	1,791	
4	251.6	149,677	21,367	267.06	319,792	827	
5	253.5	166,640	16,963	267.06	319,792	0	
6	253.8	169,355	2,715	267.08	320,075	283	
7	254.9	179,764	10,409	267.09	320,205	130	
8	255.0	180,719	955	267.12	320,619	414	
9	255.1	181,674	955	267.17	321,308	689	
10	255.2	182,630	956	267.23	322,134	826	
11	255.5	185,496	2,866	267.23	322,134	0	
12	256.2	192,300	6,804	267.18	321,445	-689	
13	256.5	195,340	3,040	267.06	319,792	-1,653	
14	256.6	196,353	1,013	266.79	316,071	-3,721	
15	256.7	197,366	1,013	266.70	314,831	-1,240	
16	257.3	203,447	6,081	266.49	311,937	-2,894	
17	257.4	204,460	1,013	266.28	309,043	-2,894	
18	257.4	204,460	0	266.07	306,150	-2,893	
19	257.3	203,447	-1,013	265.89	303,759	-2,391	
20	257.3	203,447	0	265.70	301,306	-2,453	
21	257.2	202,433	-1,014	266.04	305,736	4,430	
22	257.1	201,420	-1,013	266.35	310,008	4,272	
23	256.9	199,393	-2,027	266.39	310,559	551	
24	256.8	198,380	-1,013	266.39	310,559	0	
25	256.7	197,366	-1,014	266.20	307,941	-2,618	
26	259.6	227,722	30,356	266.04	305,736	-2,205	
27	263.2	269,579	41,857	265.97	304,792	-944	
28	265.3	296,142	26,563	265.84	303,113	-1,679	
29	266.2	307,941	11,799	265.69	301,177	-1,936	
30	266.4	310,697	2,756	265.54	299,240	-1,937	
31	266.6	313,453	2,756	265.37	299,202	-38	

Table 14. Damage caused by the floods of December 1982

[In millions of dollars, by river basin; from U.S. Army Corps of Engineers, 1983]

Basin	Damage
White River	45.0
Little River	1.9
Arkansas River	40.5
Saint Francis River	0.2
Ouachita River	24.4
Tensas River	53.5
Red River	2.1
Yazoo River	32.5
Big Black River	1.5
Pearl River	1.1
Mississippi River	2.0
Total	204.7

Table 15. Estimates of damage prevented during the floods of December 1982

[In millions of dollars, by river basin; from U.S. Army Corps of Engineers, 1983]

Basin	Damage
White River	56.5
Little River	1.8
Arkansas River	4.4
Saint Francis River	0
Ouachita River	72.4
Tensas River	21.2
Red River	0
Yazoo River	132.4
Big Black River	0
Pearl River	39.1
Mississippi River	0
Total	327.8

Table 16. Number of deaths in five States caused by flooding and tornadoes during the storms of December 1982

[From National Weather Service, 1982]

	Number of deaths			
State	Early	Late		
	December	December		
Arkansas	6	_		
Illinois	5 ^a	_		
Louisiana	1	5		
Mississippi	1	_		
Missouri	6	1 ^b		
Totals	19	6		

^aTwo deaths caused by tornadoes.

^bDeath caused by tornado.

Table 17. Cumulative rainfall at selected stations in the study area, April 4-8, 1983

Station	Latitude	Longitude	Cumulative rainfall (inches)	Station	Latitude	Longitude	Cumulative rainfall (inches)
Lo	DUISIANA ^a			LOUISIANA — Continued			
Abita Springs Fire Tower	30°26′	90°03′	5.25	New Orleans DPS 6	29°59′	90°07′	8.64
Amite	30°43′	90°30′	13.54	Oaknolia	30°44′	90°59′	12.14
Baker	30°35′	91°10′	10.12	Paradis 7 S	29°47′	90°26′	4.71
Baton Rouge Central	30°33′	91°02′	11.13	Pearl River Lock 1	30°27′	89°47′	7.52
Baton Rouge WSO AP	30°32′	91°08′	10.09	Pine Grove Fire Tower	30°42′	90°45′	12.39
Baton Rouge Woodlawn	30°23′	91°00′	7.47	Plaquemines Exp. Sta.	29°35′	89°50′	1.20
Bogalusa	30°47′	89°52′	9.70	Port Vincent	30°22′	90°52′	7.04
Boothville WSCMO	29°20′	89°24′	1.03	Reserve	30°04′	90°34′	6.63
Clinton	30°52′	91°01′	13.32	Saint Bernard	29°52′	89°50′	7.70
Clinton 5 SE	30°48′	90°58′	11.79	Saint Francisville	30°46′	91°23′	10.46
Covington 4 NNW	30°32′	90°07′	5.31	Sheridan Fire Tower	30°51′	89°59′	12.06
Delta-Breton Wildlife Refuge	29°13′	89°16′	1.68	Slidell WSFO	30°15′	89°46′	8.88
5	200201	000504	0.00	Springville Fire Tower	30°26′	90°39′	12.40
Denham Springs	30°28′	90°58′	9.29	Thibodaux 3 ESE	29°46′	90°47′	4.96
Donaldsonville	30°07′	90°59′	6.05	Watson 2 ENE	30°36′	90°54′	12.43
Franklinton 2	30°51′	90°10′	13.59	Zacham: 2 ECE	30°38′	91°08′	10.66
Franklinton 3 SW	30°49′	90°11′	13.40	Zachary 2 ESE	30 38	91 08	10.00
Galliano	29°27′	90°18′	.90		MISSISSIPPI		
Gonzales	30°14′	90°54′	7.12		1411331331111		
Greenwell Springs	30°34′	90°59′	10.97	Aberdeen	33°50′	88°33′	5.10
Hammond 5 E	30°30′	90°22′	10.36	Ackerman	33°18′	89°10′	5.50
Hammond 5 E	30 30	JU 22	10.50	Arkabutla Dam	34°45′	90°08′	4,57
Hammond 3 NW	30°32′	90°29′	12.92	Ashland 2 SW	34°49′	89°12′	4.04
Howma	29°35′	90°44′	3.28	Baldwyn	34°31′	88°38′	6.72
Kentwood	30°56′	90°31′	12.44				
Liverpool 3 ENE	30°56′	90°38′	12.25	Batesville 2 SW	34°18′	89°59′	3.74
Livingston	30°30′	90°45′	8.60	Bay St. Louis NASA	30°22′	89°35′	6.22
21.11.651012	2000	,	0.00	Bay Springs 2 NNW	32°00′	89°18′	6.36
Louisiana Nature Center	30°03′	89°58′	11.58	Belmont	34°30′	88°12′	7.53
LSU Ben-Hur Exp. Sta.	30°22′	91°10′	4.41	Belzoni	33°12′	90°29′	3.36
New Orleans WSCMO AP	29°59′	90°15′	7.81				
New Orleans ADBON WSFO CI		90°08′	8.32	Biloxi City	30°24′	88°54′	2.17
New Orleans Algiers	29°56′	90°02′	9.19	Black Hawk	33°20′	90°01′	2.58
. .				Bluff Lake	33°17′	88°48′	4.75
New Orleans DPS 14	30°04′	89°58′	10.45	Booneville	34°40′	88°34′	8.34
New Orleans Water Plant	29°57′	90°08′	9.15	Brookhaven City	31°33′	90°27′	11.73
New Orleans City Hall	29°57′	90°04′	11.80	•			
New Orleans DPS 5	29°59′	90°01′	11.08	Brooksville Exp. Sta.	33°15′	88°34′	3.69
New Orleans DPS 3	29°59′	90°04′	11.20	Bruce 2 W	34°00′	89°22′	4.78

^aCumulative rainfall for April 4-9, 1983.

Table 17. Cumulative rainfall at selected stations in the study area, April 4-8, 1983—Continued

Station	Latitude	Longitude	Cumulative rainfall (inches)	Station	Latitude	Longitude	Cumulative rainfall (inches)
MIS	SISSIPPI—Conti	nued					
Buckatunna	31°32′	88°32′	4.75	Hazlehurst 4 SW	31°49′	90°27′	6.45
Byhalia 2 S	34°50′	89°42′	3.52	Hernando	34°50′	90°00′	4.06
Calhoun City 2 NW	33°55′	89°20′	3.09	Hickory Flat	34°37′	89°11′	5.16
Canton	32°36′	90°02′	8.56	Holly Springs 4 N	34°49′	89°26′	3.23
Carrollton	33°30′	89°56′	3.25	Houston 2 NE	33°55′	88°58′	4.09
Carthage 4 SE	32°42′	89°28′	4.93	Independence 3 N	34°44′	89°48′	3.20
Centreville 3 ESE	31°04′	91°01′	10.29	Iuka	34°49′	88°11′	7.38
Charleston	34°01′	90°03′	_	Jackson WSFO AP	32°19′	90°05′	8.51
Clarksdale	34°12′	90°34′	2.71	Kipling	32°41′	88°38′	3.38
Cleveland	33°44′	90°44′	2.47	Kosciusko	33°04′	89°36′	5.13
Coffeeville	33°59′	89°40′	4.66	Lafayette Springs	34°19′	89°16′	7.35
Collins	31°38′	89°34′	11.83	Lambert 5 E	34°11′	90°12′	2.68
Collinsville 7 SE	32°25′	88°46′	4.57	Laurel	31°41′	89°07′	4.71
Columbia	31°15′	89°50′	17.48	Leakesville	31°10′	88°33′	13.11
Columbus Luxapallila	33°31′	88°24′	3.76	Lexington 2 NNW	33°08′	90°04′	3.00
Corinth 5 WSW	34°55′	88°36′	5.70	Liberty 5 W	31°10′	90°53′	9.58
Crandall 12 N	32°05′	88°29′	5.33	Louisville	33°08′	89°04′	4.42
Crawford 5 W	33°17′	88°42′	6.64	McComb FAA AP	31°14′	90°28′	12.66
Crystal Springs 4 NNE	32°02′	90°19′	9.73	Meadville	31°28′	90°53′	9.47
Dancy	33°40′	89°03′	3.64	Meridian WSO AP	32°20′	88°45′	4.74
D'Lo 2 SW	31°57′	89°56′	8.93	Merrill	30°59′	88°43′	12.25
Edinburg	32°48′	89°20′	3.70	Minter City	33°45′	90°18′	4.33
Elliott 1 SW	33°41′	89°46′	2.90	Mize	31°51′	89°33′	7.23
Enid Dam	34°09′	89°55′	4.32	Monticello	31°33′	90°06′	12.29
Enterprise	32°11′	88°49′	5.03	Moorhead	33°27′	90°31′	4.01
Eupora 2 E	33°33′	89°14′	3.30	Mount Pleasant	34°57′	89°31′	3.26
Forest 3 S	32°19′	89°29′	5.41	Natchez	31°33′	91°23′	8.22
Fulton 3 W	34°16′	88°27′	6.33	New Albany	34°28′	89°00′	7.14
Gholson 8 W	32°55′	88°52′	3.35	Newton Exp. Sta.	32°20′	89°05′	3.97
Goshen Springs 2 NNE	32°30′	89°54′	7.75	Nitta Yuma	33°02′	90°51′	3.37
Greenwood FAA AP	33°30′	90°05′	3.00	Oakley Exp. Sta.	32°12′	90°31′	8.89
Grenada	33°47′	89°49′	4.15	Ofahoma	32°43′	89°42′	7.15
Gulfport Naval Center	30°23′	89°08′	8.56	Okolona	34°00′	88°45′	4.79
Guntown	34°27′	88°40′	6.94	Onward	32°43′	90°56′	2.94
Hattiesburg	31°18′	89°17′	12.39	Pascagoula 2 ENE	30°23′	88°30′	8.44

Table 17. Cumulative rainfall at selected stations in the study area, April 4-8, 1983—Continued

Station	Latitude	Longitude	Cumulative rainfall (inches)	Station	Latitude	Longitude	Cumulative rainfall (inches)
MI	SSISSIPPI—Contin	ued		MIS	SISSIPPI-Cont	inued	
Paulding	32°02′	89°02′	4.26	University	34°23′	89°32′	5.60
Pelahatchie	32°19′	89°48′	6.88	Vaiden 1 SSW	33°19′	89°45′	3.43
Philadelphia 1 WSW	32°46′	89°08′	3.89	Vance 1 SE	34°04′	90°22′	2.78
Picayune	30°31′	89°42′	5.76	Vancleave	30°32′	88°41′	7.39
Pickens	32°53′	89°59′	7.26	Van Vleet	33°58′	88°54′	5.04
Pleasant Hill	34°54′	89°54′	4.32	Vicksburg Military Park	32°21′	90°51′	5.78
Pontotoc 5 E	34°16′	88°55′	5.37	Walnut Grove 2 S	32°34′	89°28′	5.14
Pontotoc Exp. Sta.	34°09′	89°00′	5.16	Water Valley 1 NNE	34°10′	89°38′	4.67
Poplarville Exp. Sta.	30°51′	89°33′	6.30	Waveland	30°18′	89°23′	8.83
Port Gibson 1 NW	31°58′	91°00′	9.89	Waynesboro 2 W	31°41′	88°40′	4.38
Prentiss 1 N	31°37′	89°52′	9.37	White Oak 1 NW	32°05′	89°42′	9.62
Purvis	31°09′	89°24′	14.20	Wiggins	30°52′	89°08′	10.37
Quitman 1 N	32°04′	88°43′	4.55	Winona 5 E	33°29′	89°38′	3.28
Richton 3 SSE	31°18′	88°54′	10.90	Woodville 4 ESE	31°06′	91°14′	11.91
Ripley	34°44′	88°57′	5.66	Yazoo City 5 NNE	32°54′	90°23′	4.67
Rockport	31°48′	90°09′	9.64		TENNESSEE		
Rolling Fork	32°54′	90°53′	2.16				
Russell 2 WNW	32°25′	88°37′	4.20	Bolivar Water Works	35°16′	88°59′	3.52
Sarah 3 SE	34°32′	90°11′	4.30	Memphis WSFO	35°03′	90°00′	3.45
Sardis Dam	34°24′	89°48′	4.55				
Saucier Exp. Forest	30°38′	89°03′	4.86				
Senatobia	34°38′	89°58′	3.26				
Shubuta	31°52′	88°42'	4.36				
Shuqualak	32°59′	88°34′	_				
Sledge 2 N	34°27′	90°13′	4.10				
Standard	30°32′	89°22′	4.64				
State University	33°28′	88°48′	4.28				
Stoneville Exp. Sta.	33°26′	90°55′	2.07				
Sumrall	31°25′	89°32′	9.52				
Swan Lake	33°53′	90°17′	3.36				
Tibbee	33°32′	88°39′	4.22				
Tupelo 2 WNW	34°16′	88°44′	4.77				
Tylertown 2 WNW	31°07′	90°11′	15.54				
Union	32°35′	89°07′	4.56				
Union Church 1 SE	31°40′	90°47′	8.26				

Table 18. Flood-crest elevations on six creeks and rivers in three river basins of the Mississippi study area in April 1983

Stream and location	Distance upstream from mouth (miles)	Elevation above NGVD of 1929 (feet)
PASCAGOULA RIVER BASIN		
Black Creek		
At U.S. Highway 98 near Hattiesburg, Miss., at upstream side of highway about 200 ft right of main channel bridge	124.4	283.96
At downstream side of highway about 75 ft left of main channel bridge		281.71
At State Highway 589, Miss., at upstream side of highway and about 300 ft		
left of bridge	117.7	252.25
At downstream side of left abutment		251.73
At I-59 near Purvis, Miss., at left downstream abutment	104.8	210.22
At State Aid Road near Purvis, Miss., at downstream side of road about 750 ft left from bridge	102.9	203.12
At Dantzler Bridge at downstream right abutment	97.4	186.01
At Dantzler Bridge at downstream left abutment		186.45
At U.S. Highway 49 in Brooklyn, Miss., upstream from highway 100 ft and 200 ft left of bridge (gaging station 02479130)	87.4	160.60
At downstream side of highway and streamward side of paved crossroad about 750 ft right of bridge	67.4	157.47
Downstream from U.S. Highway 49 gaging station at Brooklyn, Miss., at window over front porch of house at right edge of flood plain	86.6	157.65
At Brooklyn Motor Company near left edge of flood plain about 1,000 ft left of main channel bridge	00.0	155.90
At Brooklyn, Miss., at second bridge crossing below Highway 49 bridge, at		155.70
left downstream abutment	85.4	152,3
At right downstream abutment		152.0
At State Highway 29 near Janie, Miss., directly upstream from highway curve sign and 1,000 ft left of bridge	63,8	120.90
At left downstream bridge abutment	05.0	119.43
First crossing upstream from State Highway 26 near Rosette, Miss., at left downstream bridge abutment	41.8	95.97
At State Highway 57 near Vestry, Miss., at left downstream abutment of		
main channel bridge	20.2	44.28
At U.S. Highway 11 near Lumberton, Miss., at upstream side of highway and about 500 ft left of bridge	84.8	245.97
At downstream side of right bridge abutment	07.0	244.78
At State Highway 13 near Lumberton, Miss., at downstream side of right		244.76
bridge abutment	83.7	235.94
At State Highway 26 near Wiggins, Miss., upstream from highway about 50 ft and about 1,650 ft left of main channel bridge	61.0	150.22
Downstream from highway about 60 ft and about 1,750 ft left of main channel bridge		148.88
At first crossing downstream from Highway 26 near Wiggins, Miss., about 60 ft downstream and about 200 ft left of bridge	61.1	147.48
At U.S. Highway 49 near Wiggins, Miss., about 80 ft upstream and about 2,000 ft left of main channel bridge	52.3	121.08
At county road near Parkinston, Miss., upstream from road about 150 ft and about 300 ft right of right end of bridge	46.4	101.09
About 40 ft downstream from right bridge abutment		99.71

Table 18. Flood-crest elevations on six creeks and rivers in three river basins of the Mississippi study area in April 1983–Continued

PASCAGOULA RIVER BASIN—Continu Red Creek—continued At county road near Ramsey Springs, Miss., near right downstream bridge abutment	(miles) ued 32.3 16.1 12.0	72.74 41.28 35.12
Red Creek-continued At county road near Ramsey Springs, Miss., near right downstream bridge abutment At Vestry, Miss., near right downstream bridge abutment (gaging station 02479300). At State Highway 57 near Vestry, Miss., about 300 ft left of main channel bridge.	32.3 16.1	41.28
At county road near Ramsey Springs, Miss., near right downstream bridge abutment At Vestry, Miss., near right downstream bridge abutment (gaging station 02479300). At State Highway 57 near Vestry, Miss., about 300 ft left of main channel bridge	16.1	41.28
02479300) At State Highway 57 near Vestry, Miss., about 300 ft left of main channel bridge		
bridge	12.0	35.12
Conditions line on alling man left about the contract of the change had be		
Good foam line on piling near left abutment on main channel bridge PEARL RIVER BASIN		34.64
Pearl River		
At State Highway 15 at Burnside, Miss. (gaging station 02481880, site 80)	416.2	390.63
At State Highway 16 at Edinburg, Miss. (gaging station 02482000, site 81)	387.5	366.09
At State Highway 35 at Carthage, Miss. (gaging station 02482550, site 84)	366.3	337.64
At U.S. Highway 80 at Jackson, Miss. (gaging station 02486000, site 98)	286.98	269.28
At Monticello, Miss. (gaging station 02488500, site 106)	190.8	189.19
At Columbia, Miss. (gaging station 02489000, site 112)	137.8	142.01
At Bogalusa, La. (gaging station 02489500, site 115)	78.2	77.78
Tickfaw River		
At Louisiana State Highway 38 near Liverpool, La. (gaging station		
07375800)	71.2	219.30
At Louisiana State Highway 16 near Liverpool, La. (gaging station		
07375960)	50.6	108.10
At Louisiana State Highway 190 at Holden, La. (gaging station 07376000)	30.8	40.19
Amite River		
At Louisiana State Highway 10 near Darlington, La. (gaging station		
07377000)	87.3	166.1
At Louisiana State Highway 37 at Grangeville, La. (gaging station		111.00
07377150)	74.7	111.29
At Louisiana State Highway 64 at Magnolia, La. (gaging station 07377300)	51.1	50.97
At U.S. 90 near Denham Springs, La. (gaging station 07378500)	43.2	41.50
Near Baton Rouge, La. (gaging station 07378710)	34.8	29.23
Near Port Vincent, La. (gaging station 07380120)	21.8	14.65
Comite River		
At Louisiana State Highway 10 near Clinton, La. (gaging station 07377400)	43.2	179.4
At Louisiana State Highway 67 near Olive Branch, La. (gaging station	22.4	122.25
07377500)	32.4	133.35
	21.3	88.30
At Louisiana State Highway 270 near Baton Rouge, La. (gaging station 07377760)	12.5	65.87
At Louisiana State Highway 946 near Comite, La. (gaging station 07378000).	10.3	53.57

Table 19. Cumulative rainfall at selected stations in Mississippi, May 18-22, 1983

Station name	Latitude	Longitude	Cumulative rainfall (inches)
Aberdeen	33°50″	38°33"	7.79
Ackerman	33°18″	89°10″	7.89
Arkabutla Dam	34°45"	90°08"	4.70
Ashland 2 SW	34°49"	89°12"	5.83
Baldwyn	34°31″	38°38"	10.13
Batesville 2 SW	34°18″	39°59"	4.94
Bay Springs 2 NNW	32°00″	89°18″	2.67
Belmont	34°30″	38°12″	8.43
Belzoni	33°12″	90°29″	7.10
Black Hawk	33°20″	90°01"	9.62
Bluff Lake	33°17″	88°48″	5.96
Booneville	34°40″	88°34″	9.04
		38°34″	
Brooksville Exp. Sta	33°15″		7.72
Bruce 2 W	34°00″	89°22″	4.96
Byhalia 2 S	34°50″	89°42″	4.42
Calhoun City 2 NW	33°55″	89°20″	5.77
Canton	32°36″	90°02″	9.24
Carrollton	33°30″	89°56"	7.05
Carthage 4 SE	32°42"	89°28″	7.83
Charleston	34°01"	90°03″	3.20
Clarksdale	34°12″	90°34″	5.66
Cleveland	33°44"	90°44"	3.79
Coffeeville	33°59"	89°40"	8.14
Collinsville 7 SE	32°25″	88°46″	3.80
Corinth 5 WSW	34°55″	88°36″	6.51
Crawford 5 W	33°17″	88°42″	7.39
Crystal Springs 4 NNE	32°02″	90°19″	6.96
Dancy	33°40″	89°03″	8.11
D'Lo 2 SW	31°57"	89°56″	4.66
Edinburg	31°37' 32°48"		
		89°20″	10.20
Elliott 1 SW	33°41″	89°45″	3.89
Enid Dam	34°09″	89°55″	8.81
Enterprise	32°11″	88°49″	1.87
Eupora 2 E	33°33″	89°14″	7.61
Forest 3 S	32°19″	89°20″	7.70
Fulton 3 W	34°16″	88°27″	6.74
Gholson 8 W	32°55″	88°52″	8.77
Goshen Springs 2 NNE	32°30″	89°54"	6.58
Greenwood FAA AP	33°30"	90°05″	5.38
Granada	33°47"	89°49″	6.23
Guntown	34°27"	88°40"	9.65
Hazelehurst 4 SW	31°49″	90°27"	8.08
Hernando	34°50"	90°00″	4.32
Hickory Flat	34°37"	89°11″	6.58
Holly Springs 4 N	34°49″	89°26″	6.03
Houston 2 NE	33° 5 5″	88°58″	6.29
Independence 3 N	34°44″	89°48″	5.47
Iuka	34°49″	88°11″	6.69
Jackson WSFO AP	34 49 32°19″	90°05″	
			5.68
Kipling	32°41″	88°38″	7.18
Kosciusko	33°04″	89°36″	10.18
Lafayette Springs	34°19″	89°16″	7.22
Lambert 5 E	34°11″	90°12″	5.64
Louisville	33°08″	89°04″	10.69
Meridian WSO AP	32°20″	88°45″	4.66
Minter City	33°45″	90°18″	6.88

Table 19. Cumulative rainfall at selected stations in Mississippi, May 18-22, 1983—Continued

Station name	Latitude	Longitude	Cumulative rainfall (inches)
Mize	31°51″	89°33″	3.32
Moorhead	33°27″	90°31″	5.22
Mount Pleasant	34°57"	89°31″	3.82
New Albany	34°28″	89°00″	9.68
Newton Exp. Sta.	32°20″	89°05″	3.82
Nitta Yuma	33°02″	90°51″	6.07
Oakley Exp. Sta	32°12″	90°31″	6.04
Ofahoma	32°43″	89°42″	9.10
Okolona	34°00″	88°45″	5.89
Onward	32°43″	90°56″	9.40
Paulding	32°02″	89°02″	4.03
Pelahatchie	32°19″	89°48″	6.11
Philadelphia 1 WSW	32°46″	89°08″	8.60
Pickens	32°53″	89°59″	8.29
Pleasant Hill	34°54″	89°54″	4.84
Pontotoc 5 E.	34°16″	88°55″	6.19
Pontotoc Exp. Sta.	34°09″	89°00″	5.07
Port Gibson 1 NW	31°58″	91°00″	9.28
Ripley	34°44″	88°57"	5.10
Rockport	31°48″	90°09″	4.32
Rolling Fork	32°54″	90°53″	7.57
Sardis Dam	34°24″	89°48″	5.94
Senatobia	34°33″	89°58″	6.19
Sledge 2 N	34°27″	90°13″	5.64
State University	33°28″	88°48″	6.96
Stoneville Exp. Sta.	33°26″	90°55″	6.03
Swan Lake	33°53″	90°17″	4.82
Tibbee.	33°32″	88°39″	7.27
Tupelo 2 WNW	34°16″	88°44″	6.75
Union	32°35″	89°07″	8.59
Union Church 1 SE.	31°40″	90°47″	6.44
University	34°23″	89°32″	5.95
Vaiden 1 SSW	33°19″	89°45″	9.91
Vance 1 SW	34°04″	90°22″	5.10
Van Vlett	33°58″	88°54″	4.53
Vicksburg Military Pk	32°21″	90°51″	8.34
Walnut Grove 2 S	32°34″	89°28″	7.00
Water Valey 1 NNE	34°10″	89°38″	6.57
White Oak 1 NW	32°05″	89°42″	4.64
Winona 5 E	33°29″	89°38″	8.90
Yazoo City 5 NNE	32°54″	90°23″	10.54

Table 20. Comparison of Pearl River peak stages in April 1983, May 1983, and April 1979

				Elevation above NGVD of 1929		
Station and location	Gaging station no.	Site no.	Distance upstream from mouth (miles)	April 1983 (feet)	May 1983 (feet)	April 1979 ^a (feet)
At State Highway 15 at Burnside, Miss	02481880	80	416.2	390.6	394.77	398.31
At State Highway 16 at Edinburg, Miss	02482000	81	387.5	366.09	370.02	371.73
At State Highway 35 at Carthage, Miss	02482550	84	366.3	337.64	342.31	343.98
At U.S. Highway 80 at Jackson, Miss	02486000	98	286.98	269.78	273.28	276.98
At Monticello, Miss	02488500	106	190.8	189.19	188.5	192.74 ^b
At Columbia, Miss	02489000	112	137.8	142.01	140.3	143.61 ^c
At Bogalusa, La	02489500	115	78.2	77.8	75.97	78.23

 $^{^{\}mathrm{a}}\mathrm{Highest}$ known flood for period of record, except where noted. $^{\mathrm{b}}\mathrm{194.161}$ ft in 1874.

^cApproximately 147 ft in 1874.

Table 21. Flood-crest elevations at ungaged points in the Tombigbee, Pearl, and Big Black River basins in May 1983

Stream and location	Distance upstream from mouth (miles)	Elevation above NGVD of 1929 (feet)
TOMBIGBEE RIVER BASIN (TOWN CF		
At county road near Tupelo, Miss., downstream 10 ft from right downstream	,	
wingwall of main channel bridge	29.4	277.90
At Natchez Trace near Tupelo, Miss., near downstream end of left abutment	28.4	273.16
At U.S. Highway 78 upstream from U.S. Highway 45 near Tupelo, Miss., at		
downstream side of bridge at first pile cluster from right abutment	_	270.87
At U.S. Highway 45 at Tupelo, Miss., near downstream end of left abutment of		
main channel bridge	27.3	269.56
At U.S. Highway 78 downstream from U.S. Highway 45 near Tupelo, Miss., upstream from highway 250 ft and 300 ft right of right abutment of upstream bridge	_	268.13
At left abutment of downstream bridge	_	267.51
At U.S. Highway 78 at Tupelo, Miss., upstream from highway about 40 ft and		207.31
between the center bridge and left-most bridge	24.3	262.80
Near downstream right abutment	25	262.28
At Frisco Railroad at Tupelo, Miss., at upstream side and 2,000 ft right of main		
channel bridge	23.1	259.49
At 15 ft right of left downstream main pier of main channel bridge		258.44
At Eason Blvd. at Tupelo, Miss., upstream from highway about 100 ft and 20 ft		
left of upstream left spur dike	_	258.11
At downstream side of bridge near right abutment		257.48
At sewage lagoon at Tupelo, Miss., at northwest corner of disposal pond about 200 ft right of intersection of paved and gravel roads	_	254.47
At county road near Verona, Miss., at crest stage gage	19.8	247.44
At bridge on U.S. Highway 45 near Nettleton, Miss. (gaging station 02436500).	9.2	222.8
PEARL RIVER BASIN (PEARL RIVE	ER)	
At State Highway 15 at Burnside, Miss	416.2	
At upstream side of highway about 200 ft left of left relief bridge		396.41
Near center of main channel bridge at downstream side (gaging station 02481880)		394.77
At State Highway 19 near Philadelphia, Miss	412.9	
At upstream side of highway about 500 ft left of main channel bridge;		
average of 2 marks		391.50
At upstream side of highway about 1,850 ft right of second relief bridge		
right of main channel bridge; average of 2 marks		391.75
At downstream left abutment of main channel bridge		390.63
At State Highway 16 at Edinburg, Miss. (gaging station 02482000)	387.5	
At upstream side of highway about 800 ft left of main channel bridge		372.64
At gage at downstream right abutment of main channel bridge	244.2	370.02
At State Highway 35 at Carthage, Miss. (gaging station 02482550)	366.3	
At upstream side of highway about 220 ft left of main channel		342.69
At upstream side of highway about 4,820 ft right of main channel bridge		342.99
At downstream left abutment of main channel bridge	A#1 :	342.00
At State Highway 13 near Lena, Miss.	354.1	224 77
At upstream side of highway about 6,200 ft right of main channel bridge		331.75
At downstream side of highway about 6,100 ft right of main channel		331.25
bridge; average of 3 marks		330.56
At downstream right abutment of main channel bridge		330.30

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Table 21. Flood-crest elevations at ungaged points in the Tombigbee, Pearl, and Big Black River basins in May 1983—Continued

Stream and location	Distance upstream from mouth (miles)	Elevation above NGVD of 1929 (feet)
PEARL RIVER BASIN (PEARL RIVER)—C	Continued	
At State Highway 25 near Lena, Miss., at downstream left abutment of new		
main channel bridge	353.88	330.09
Tailwater-Ross Barnett Reservoir	301.77	284.88
Purple Creek (backwater)	296.12	282.20
Highway 25	292.63	278.81
Jackson Waterworks gage	290.58	277.12
Woodrow Wilson Bridge	287.55	274.98
Highway 80 (gaging station 02486000)	286.98	273.28
Interstate Highway 20	286.6	272.64
Lynch Creek (backwater at Gallatin Street)	286.08	272.27
Hardy Creek (backwater at Interstate 55)	283.48	269.28
Caney Creek (backwater at Interstate 55)	281.12	267.17
Byram	270.25	261.25
At Rockport, Miss. (gaging station 02488000)	222.6	
At Columbia, Miss. (gaging station 02489000)	137.8	140.3
At Bogalusa, La. (gaging station 02489500, site 115)	78.2	75.97
BIG BLACK RIVER BASIN (BIG BLACK	RIVER)	
Canal at Gravel County Road near Tomnolen, Miss., at tree 20 ft upstream of		
left abutment	263.6	342.6
On paved county road near Stewart, Miss	285.5	
Left 1,600 ft from left upstream abutment and about 100 ft upstream from road		330.15
At downstream side of road 160 ft right of right downstream abutment		325.54
At State Highway 9 at Europa, Miss.	269.8	
At right edge of flood plain 60 ft upstream from highway		363.8
At tree 1,000 ft left of left upstream abutment and 30 ft upstream from		
highway		363.5
At right downstream abutment of main channel bridge		361.4
At State Highway 413 near Kilmichael, Miss	250.8	
At right edge of flood plain 45 ft upstream from highway		315.87
At right edge of flood plain 50 ft downstream from highway		312.24
At State Highway 407 upstream from highway 25 ft and 650 ft right of right		
upstream abutment of fifth relief bridge right of main channel bridge	244.5	305.2
Downstream from road 20 ft and left 20 ft from left downstream abutment		
of main channel bridge		303.9
At State Highway 35 near Vaiden, Miss	225.2	
Upstream from highway 20 ft and 500 ft left of left abutment of the main		
channel bridge		291.22
Downstream from highway 20 ft and about 50 ft left of left abutment of the main channel bridge		289.55
At State Highway 19 at West, Miss., upstream from highway 30 ft and 1,500 ft		
left of left abutment	209.0	277.42
At left downstream abutment of main channel bridge		275.15
At State Highway 12 at Durant, Miss.	190.8	
Upstream from highway 10 ft and 300 ft right of right abutment of main		0.7.7.10
channel bridge		255.10
At downstream abutment of main channel bridge		253.97

Table 21. Flood-crest elevations at ungaged points in the Tombigbee, Pearl, and Big Black River basins in May 1983—Continued

Stream and location	Distance upstream from mouth (miles)	Elevation above NGVD of 1929 (feet)
BIG BLACK RIVER BASIN (BIG BLACK RIVE	R)—Continued	
At State Highway 14 at Goodman, Miss	176.00	
Upstream from highway 100 ft and 20 ft left of left abutment of first relief bridge right of main channel		236.41
At right downstream abutment of main channel bridge		235.05
At U.S. Highway 51 near Pickens, Miss.	161.2	
Upstream from highway 100 ft and 850 ft right of right abutment of main channel bridge.		220.21
Downstream from highway 60 ft and 100 ft left of left abutment of main channel bridge.		218.77
At Interstate 55 near Way, Miss.	144.5	210.77
On upstream side of highway near left edge of valley	144.5	200.44
At right downstream abutment of main channel bridge		199.65
At State Highway 16 near Canton, Miss	139.6	177.00
Upstream from highway 75 ft and 300 ft left of main channel	20,10	194.43
Upstream from highway 75 ft and about 600 ft right of number 3 relief		250
bridge		195.81
At downstream abutment of main channel bridge		194.03
At U.S. Highway 49 near Bentonia, Miss., at downstream right abutment of		
main channel bridge	106.0	190.91
At abandoned Cox Ferry Road about 3,500 ft left of main channel	92.8	155.24
At Interstate 20 near Edwards, Miss., upstream 80 ft and 60 ft east of left end		
of left relief opening at edge of flood plain	69.8	140.21
At old U.S. Highway 80 near Bovina, Miss., at left downstream abutment of main channel bridge	61.7	125.95
At State Highway 27 near Utica, Miss., upstream from highway 50 ft and 3,800		
ft right of right abutment of relief bridge	51.7	116.50
At Fisher Ferry Bridge near Regantown, Miss., upstream from highway 15 ft	20.4	106.09
and 1,320 ft right of right-most relief bridge	39.4	106.98 105.80
At Harlinger Form Bridge degree to 150 ft from left and of all bridge	22.0	
At Harkinson Ferry Bridge, downstream 150 ft from left end of old bridge	23.0	97.58
At U.S. Highway 61 near Port Gibson, Miss., at downstream right abutment of main channel bridge	16.0	93.22

